

GENERAL STRUCTURAL NOTES

- G-1 ALL DIMENSION SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DO NOT SCALE THE DRAWINGS.
- G-2 THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED FOR THE COMPLETION OF THE PROJECT.
- G-3 THE CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR COMPLETION OF THE WORK.
- G-4 ANY CONFLICT BETWEEN ELEVATIONS OR DIMENSIONS STATED IN STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS, THE ARCHITECTURAL ELEVATIONS OR DIMENSION SHALL PREVAIL.
- G-5 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-6 STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
- G-7 DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2020 BUILDING CODE OF NEW YORK STATE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES G-4 THROUGH G-8 WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- G-8 LIVE LOADS:

STRUCTURE \ LEVEL	ROOF	TOP / FIRST FLOOR	BOTTOM / GROUND FLOOR
ALL STRUCTURES	20 PSF	40 PSF	100 PSF

- ALL STAIRWAYS, LANDINGS, CORRIDORS AND PLATFORMS ARE DESIGNED FOR A LIVE LOAD = 100 PSF UNLESS NOTED OTHERWISE.
- G-9 SNOW LOAD:
GROUND SNOW LOAD (Pg) = 30 PSF
FLAT-ROOF SNOW LOAD (Pf) = 21 PSF
SNOW EXPOSURE FACTOR (Ce) = 1.0
SNOW LOAD IMPORTANCE FACTOR (Is) = 1.0
THERMAL FACTOR (Ct) = 1.0
DRIFT SURCHARGE LOAD Pd = 53 PSF
WIDTH OF SNOW DRIFT (W) = 7.0 FT
 - G-10 WIND DESIGN CRITERIA:
BASIC DESIGN WIND SPEED (Vult) = 115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) = 89 MPH
RISK CATEGORY = II
WIND IMPORTANCE FACTOR (Iw) = 1.0
WIND EXPOSURE = B

PARAMETER \ STRUCTURE	PRESSURE COEFFICIENT GCp	WIND DESIGN PRESSURE	COMPONENTS AND CLADDING	LATERAL LOAD RESISTING SYSTEM
ALL STRUCTURES	± 0.18	33.86 PSF	ZONE 4&5: 26 PSF ZONE 4: -28 PSF ZONE 5: -35 PSF ROOF: 21 PSF/-36 PSF ROOF OVERHANGS: 46 PSF/-54 PSF	MASONRY SHEAR WALL & REINFORCED CONCRETE SHEAR WALL

- G-11 SEISMIC LOAD:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR (Ie) = 1.0
SITE CLASS = C
MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss/S1) = 0.293/0.061
SPECTRAL RESPONSE ACCELERATIONS (SMS/S1) = 0.380/0.092
SPECTRAL RESPONSE COEFFICIENTS (SDS/SD1) = 0.254/0.061
SITE COEFFICIENTS (Fa/Fv) = 1.3/1.5
SEISMIC DESIGN CATEGORY = B

PARAMETER \ STRUCTURE	BASIC STRUCTURAL SYSTEM	DESIGN BASE SHEAR	SEISMIC RESPONSE COEFFICIENT Cs	RESPONSE MODIFICATION COEFFICIENT R	ANALYSIS PROCEDURE
ALL STRUCTURES	MASONRY SHEAR WALL & REINFORCED CONCRETE SHEAR WALL	146.26 K	0.084	2	EQUIVALENT LATERAL FORCE

- G-12 RAIN LOAD:
RAIN INTENSITY (i) = 1.78 IN/HR (10 YEAR PROBABILITY)
- G-13 OTHER LOADS:
HANDRAILS AND GUARDS 50 PLF (UNIFORM) OR 200 LBS (POINT LOAD)
INTERMEDIATE RAILS 50 LBS (POINT LOAD)
VEHICLE BARRIERS 6,000 LBS (POINT LOAD)
- G-14 ALL DIMENSIONS INDICATED FOR EXISTING STRUCTURES SHALL BE VERIFIED BY FIELD MEASUREMENT. ALL DIMENSIONS THAT ARE CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- G-15 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.
- G-16 IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.
- G-17 EQUIPMENT ANCHOR SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL ANCHOR PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.
- G-18 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- G-19 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.
- G-20 IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING THAT PROPOSED CONSTRUCTION (INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS) WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF NEW YORK.
- G-21 CONTRACT PROPER AUTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- G-22 NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.
- G-23 LEAKAGE TESTING OF HYDRAULIC STRUCTURES SHALL NOT BEGIN UNTIL ALL STRUCTURAL ELEMENTS HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH. BACKFILL SHALL NOT BE PLACED AROUND ANY HYDRAULIC STRUCTURE UNTIL THE LEAKAGE TEST HAS BEEN COMPLETED UNLESS APPROVED BY THE ENGINEER.

GYPSUM BOARD & GYPSUM PANELS MATERIALS AND ACCESSORIES NOTES

- CS-1 ACCESSORIES FOR GYPSUM BOARD: ASTM C1047 ADHESIVES FOR FASTENING THE GYPSUM BOARD: ASTM C557 REFER TO BCNYS SECTION 2506.2 AND TABLE 2506.2 FOR ACCEPTABLE MATERIAL STANDARDS THAT CAN BE USED
- CS-2 GYPSUM WALL BOARD, GYPSUM LATH OR GYPSUM PLASTER SHALL NOT BE INSTALLED UNTIL WEATHER PROTECTION FOR THE INSTALLATION IS PROVIDED. FOR THE INSTALLATION OF GYPSUM BOARD PRODUCTS AND GYPSUM BOARD PANEL PRODUCTS AND THEIR ASSOCIATE ACCESSORIES REFER TO BCNYS SECTION 2508.8 AND TABLE 2508.2
- CS-3 PLASTIC FOAM INSULATION SHALL HAVE A FLAME-SPREAD INDEX OF 75 OR LESS AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450, WHERE TESTED IN THE MAXIMUM THICKNESS INTENDED FOR USE IN ACCORDANCE WITH ASTM E84 OR UL 723. FOAM PLASTIC INSULATION SHALL BE SEPARATED FORM THE INTERIOR OF THE BUILDING BY AN APPROVED THERMAL BARRIER

STRUCTURAL METALS

- M-1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH ANSII/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.
- M-2 STEEL MATERIAL:
A) STRUCTURAL HSS: ASTM A500, GRADE C (46/50 KSI) OR A1085 GRADE A (50 KSI)
B) PLATES, BARS AND ANGLES: ASTM A36 UNO (36 KSI)
C) STRUCTURAL W. C. & MC SHAPES: ASTM A992 (50 KSI)
D) ANCHOR RODS ASTM F1554 GRADE 55 (55 KSI)
E) BOLTS ASTM A-490 (WASHERS ASTM F 436, NUTS ASTM A 563)
F) ELECTRODES AWS 70XX
- M-3 PROVIDE MINIMUM 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE 1 OR GRADE F1852 TYPE 1 HIGH STRENGTH BOLTS WITH SNUG TIGHTENED TYPE N CONNECTIONS FOR STRUCTURAL STEEL UNLESS NOTED OTHERWISE. HOLES FOR BOLTS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.
- M-4 PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN ONE HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS UNLESS NOTED OTHERWISE.
- M-5 DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ARE TO BE ENCASED IN CONCRETE.
- M-6 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION.
- M-7 FILLET WELD SIZES SHALL NOT BE LESS THAN THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH, AND NOT LESS THAN 3/16".
- M-8 ALL WELDS SHALL BE PERFORMED IN THE SHOP UNLESS NOTED BY A FIELD WELD SYMBOL OR APPROVED BY ENGINEER.
- M-9 BOTTOM SURFACES OF BASE PLATES SHALL BE GROUTED TO ENSURE FULL BEARING CONTACT WITH CONCRETE SLAB.
- M-10 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, A MINIMUM OF TWO FASTENINGS PER PIECE SHALL BE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 0.25 OF FASTENER SPACING FROM EACH END.
- M-11 ALL STEEL SURFACES SHALL RECEIVE RED OXIDE PRIMER, UNLESS NOTED OTHERWISE.

COLD FORMED STEEL NOTES

- CS-1 AMERICAN IRON AND STEEL INSTITUTE (AISI) S200 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING- GENERAL PROVISIONS: COLD FORMED STEEL FRAMING STANDARDS, AISI S100-16 NORTH AMERICAN SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, WALL STUDS: AISI S211, WALL HEADERS: AISI S212, STRUCTURAL DECK: AISI 100
- CS-2 FABRICATE STEEL FRAMING ACCESSORIES FROM THE SAME GRADE AND COATING USED FOR THE FRAMING MEMBERS AS A MINIMUM.
- CS-3 MECHANICAL FASTENERS TO BE ASTM C1513, CORROSION RESISTANT COATED SELF DRILLING/SELF TAPPING STEEL DRILL SCREWS.
- CS-4 EXTERIOR NON-LOAD BEARING FRAMING HORIZONTAL DEFLECTION IS L/600.
- CS-5 ALL COLD FORMED STEEL FRAMING AND ACCESSORIES SHALL BE GALVANIZED G90.

FOUNDATIONS

- F-1 CONCRETE (CAST-IN-PLACE) NOTES APPLY TO FOUNDATIONS.
- F-2 REFER TO THE GEOTECHNICAL REPORT FOR CONSTRUCTION RECOMMENDATIONS.
- F-3 MINIMUM DEPTH FROM ADJACENT FINISHED GRADE TO BOTTOM OF FOUNDATION = 3'-6"

CONCRETE MASONRY NOTES

- M-1 MASONRY SHALL COMPLY WITH THE PROVISIONS OF TMS 402, TMS403 OR TMS 404, AS WELL AS THE APPLICABLE EQUIPMENTS OF IBC CHAPTER 21.
- M-2 ALL NEW MASONRY IS ASSUMED TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI. COMPLETE TEST PRESSURE SHALL BE PROVIDED TO THE BUILDING INSPECTOR.
- M-3 ALL NON-BEARING MASONRY WALLS SHALL BE REINFORCED WITH #4 VERTICAL BARS AT 40 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED.
- M-4 PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS SHALL BE FULLY DEVELOPED.
- M-5 MASONRY UNIT SHALL CONFORM TO ASTM C55, C73, C90, C129 OR C744 AND ARTICLE 2.3 OF TMS 602 AND MASONRY GROUT SHALL CONFORM TO ASTM C 476 AND ARTICLE 2.2 OF TMS 602.
- M-6 MASONRY MORTAR SHALL BE TYPE "S" AND CONFIRM TO ASTM C 270 AND TO ARTICLES 2.1 AND 2.6A OF TMS 602. REFER TO BCNYS SECTION 2103.2.1
- M-7 REINFORCING STEEL SHALL COMPLY WITH ASTM A 615, GRADE 60. REFER BCNYS SECTION 2103 MASONRY CONSTRUCTION MATERIALS. REFER TO BCNYS SECTION 2104 CONSTRUCTION.
- M-8 METAL REINFORCEMENT AND ACCESSORIES FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY TO ARTICLE 2.4 OF TMS 602. BYNYC SECTION 2103.3
- M-9 MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF IBC SECTIONS 2104.1.1 AND 2104.1.2, AND THE REQUIREMENTS OF EITHER TMS 602 OR TMS 604
- M-10 ANCHOR MASONRY TO STRUCTURAL MEMBERS WHERE MASONRY ABUTS OR FACES SUCH MEMBERS TO COMPLY WITH THE MASONRY SPECIFICATIONS.
- M-11 ANCHOR MASONRY TO STRUCTURAL MEMBERS WITH METAL TIES EMBEDDED IN MASONRY JOINTS AND ATTACHED TO THE CONCRETE OR STEEL STRUCTURE HORIZONTALLY AND VERTICALLY.

MATERIAL TESTING NOTES

- MT-1 SERVICES OF A LABORATORY DO NOT RELIEVE CONTRACTORS OBLIGATIONS TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT.
- MT-2 EACH INSPECTION SHALL BE DOCUMENTED PROMPTLY WITH A WRITTEN REPORT; 2 COPIES TO THE ENGINEER AND ONE COPY EACH TO THE OWNER AND THE CONTRACTOR. EACH REPORT SHALL INCLUDE:
A. DATE ISSUED.
B. PROJECT TITLE AND NUMBER.
C. TESTING LABORATORY NAME, ADDRESS AND TELEPHONE NUMBER.
D. NAME AND SIGNATURE OF LABORATORY INSPECTOR.
E. DATE AND TIME OF INSPECTION.
F. DATE OF TEST.
G. IDENTIFICATION OF PRODUCT.
H. LOCATION OF SAMPLE OR TESTING IN PROJECT.
I. TYPE OF INSPECTION OR TEST.
J. RESULTS OF TESTS AND COMPLIANCE WITH CONTRACT DOCUMENTS.
K. INTERPRETATION OF TEST RESULTS THAT INDICATE UNSATISFACTORY CONDITIONS.
L. TRACK ALL NON-COMPLYING WORK IN SUBSEQUENT REPORTS, UNTIL THE WORK HAS BEEN CORRECTED AND RE-INSPECTED.
- MT-3 INSPECTIONS AND CONTROL OF CONCRETE:
A. REVIEW AND APPROVE CONCRETE MIX DESIGNS SUBMITTED BY CONTRACTOR
B. INSPECT PLASTIC CONCRETE AT SITE TO ENSURE THAT CONCRETE IS THOROUGHLY AND PROPERLY MIXED. CONTROL CONSISTENCY OF MIX TO PROTECT AGAINST SEGREGATION DUE TO EXCESSIVE WATER. ADJUST AMOUNT OF MIXING WATER TO ASSURE UNIFORM CONSISTENCY OF EACH BATCH.
C. CHECK MIXING TIME OF CONCRETE IN TRUCKS.
D. CERTIFY EACH DELIVERY TICKET INDICATING CLASS OF CONCRETE DELIVERED, AND RECORD AMOUNT OF WATER ADDED, TIME OF MIXING, TIME OF DISCHARGE, SLUMP AND LOCATION OF PLACEMENT.
E. PROMPTLY REPORT TO ENGINEER DETAILS OF REASONS FOR REJECTION OF ANY QUANTITIES OF CONCRETE. REPORT LOCATIONS OF CONCRETE POURS, QUANTITIES, DATE OF POURS AND OTHER PERTINENT FACTS CONCERNING CONCRETE PRESENTED BY REJECTED SPECIMENS.
- MT-4 TESTING OF CONCRETE:
A. TEST CYLINDERS: DURING PROGRESS OF WORK, MOLD, CURE AND TEST SPECIMENS OF EACH DIFFERENT MIX DESIGN PLACED IN ANY ONE DAY. FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED, OR PART THEREOF OVER 10 CUBIC YARDS, MAKE COMPRESSION TEST CYLINDERS DURING POUR. MOLD AND CURE TEST CYLINDERS IN ACCORDANCE WITH ASTM C-31. TEST CYLINDERS IN ACCORDANCE WITH ASTM C-39: ONE AT 7 DAYS AND 2 AT 28 DAYS. MAKE ADDITIONAL SETS OF 3 CYLINDERS WHEN OBVIOUS CHANGES IN MIX ARE APPARENT.
B. SLUMP TESTS: MAKE SLUMP TESTS FOR EACH 50 CUBIC YARDS AT CONCRETE PLACED, AND FOR EACH SET OF CYLINDERS IN ACCORDANCE WITH ASTM C-143.
C. AIR CONTENT OF NORMAL-WEIGHT CONCRETE: DETERMINE TOTAL AIR CONTENT OF AIR ENTRAINED CONCRETE FOR EACH COMPRESSIVE STRENGTH TEST IN ACCORDANCE WITH ASTM C-231.
- MT-5 REINFORCING STEEL INSPECTION:
A. PERFORM VISUAL INSPECTION PRIOR TO PLACEMENT FOR SIZE, TYPE, AND QUALITY OF MATERIALS.
B. OBSERVE AND REPORT ON PLACEMENT OF REINFORCEMENT FOR CONFORMANCE WITH CONTRACT DOCUMENTS AND SHOP DRAWINGS, INCLUDING SIZE, VERTICAL LOCATION, HORIZONTAL SPACING, CORRECTNESS OF BENDS, SPLICES, CLEARANCE BETWEEN BARS AND FORMS, FIRMNESS OF INSTALLATION, AND SECURITY OF SUPPORT AND TIES.

CONCRETE (CAST-IN-PLACE)

- C-1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS, FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 DETAIL, FABRICATE AND PLACE ALL REINFORCING STEEL TO COMPLY WITH ACI DETAILING MANUAL.
- C-2 CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):
CLASS A2 CONCRETE (4,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE IN ALL STRUCTURES OTHER THAN STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES AS DESCRIBED ABOVE, AND FOR ALL SIDEWALKS, CURB AND GUTTERS, AND PAVEMENT.
MAX. NOMINAL COARSE AGG. SIZE (N) = 1
SLUMP = 3 (+/-)
W/C = 45 - 50
- C-3 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
- C-4 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
A) CONCRETE DEPOSITED DIRECTLY AGAINST SOIL: 3"
B) CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER): 1 1/2"
C) CONCRETE EXPOSED TO WEATHER (#6 OR LARGER): 2"
C) SLABS: 1 1/2"
D) AT SURFACES CONTACTING FLUID: 2"
D) BEAMS AND COLUMNS (TO MAIN REINFORCEMENT): 2"
E) BEAMS AND COLUMNS (TO COLUMN TIES OR STIRRUPS): 1 1/2"
E) WALLS 12" OR MORE: 2"
F) WALLS LESS THAN 12" (#5 OR SMALLER): 1 1/2"
G) WALLS LESS THAN 12" (#6 OR LARGER): 2"
F) FOR SURFACES EXPOSED TO FLUID IN BEAMS, COLUMNS AND WALLS: ADD 1/2" TO ABOVE VALUES
- C-5 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED OTHERWISE, BUT IN NO CASE SHALL THE LAP BE LESS THAN "12". LAP SPLICES FOR CONTINUOUS REINFORCING SHALL BE MADE OVER SUPPORTS FOR BOTTOM BARS AND FOR INTERMEDIATE BARS AND AT MID-SPAN FOR TOP BARS. AT EXTERIOR SUPPORTS, TOP BARS SHALL BE HOOKED DOWN AND BOTTOM AND INTERMEDIATE BARS SHALL EXTEND TO WITHIN 2' OF EXTERIOR FACE.
- C-6 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.
- C-7 ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP. EXPANSION JOINTS SHALL HAVE A 9" PVC CENTER BULB RIBBED WATERSTOP. IN VERTICAL JOINTS, WATERSTOPS SHALL TERMINATE NO LESS THAN 18" ABOVE THE MAXIMUM WATER SURFACE OR 18" ABOVE GRADE, WHICHEVER IS HIGHER.
- C-8 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER.
- C-9 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE INSTALLED PRIOR TO PLACING CONCRETE.
- C-10 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.
- C-11 CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.
- C-12 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH MATCHING DOWELS SET IN EPOXY IN DRILLED HOLES AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3" FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- C-13 ADJUST THE LOCATION OF DOWELS OR ANCHORS PLACED INTO HARDENED CONCRETE AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.
- C-14 CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.
- C-15 EXPOSED GRADE BEAMS SHALL BE RUBBED WITHIN 48 HOURS OF CONCRETE PLACEMENT TO PRODUCE A SMOOTH EXPOSED FACE.
- C-16 ALL CONCRETE FINISHING MUST EMPLOY A MECHANICAL MEANS OF CONSOLIDATION VIBRATORS OR VIBRATORY SCREEN MUST BE USED.
- C-17 DO NOT ALLOW SURFACE WATER TO ACCUMULATE AND/ OR POND IN EXCAVATIONS. TEMPORARY DEWATERING SYSTEM SHALL BE INCORPORATED BY THE CONTRACTOR ON AN AS-NEEDED BASIS.
- C-18 PROVIDE CORNER BARS IN GRADE BEAMS AND FOOTING AT EACH CORNER AND/OR INTERSECTION (TOP AND BOTTOM)
- C-19 ALL REINFORCEMENT SHALL BE SUPPORTED ON METAL OR PLASTIC SUPPORTS AND SECURELY TIED TO PREVENT MOVEMENT DURING CONCRETING.
- C-20 CONTRACTOR SHALL MAKE PROVISIONS FOR FINISHING EXPOSED CONCRETE. AS SOON AS FORMS ARE REMOVED, UNDESIRABLE FINS AND PROJECTIONS SHALL BE REMOVED, OFFSETS SHALL BE LEVELED, AND VOID OR DAMAGED PLACES SHALL BE IMMEDIATELY SATURATED WITH WATER AND FINISHED WITH CEMENTIOUS PASTE OR MORTAR OF THE SAME COMPOSITION AS USED IN THE MIX. EXPOSED SURFACES SHALL BE RUBBED WITH CARBORUNDUM STONE TO A SMOOTH FINISH FREE FROM FORM MARKS OR HONEYCOMBS.
- C-21 CONCRETE SHALL BE PLACED CONTINUOUSLY, WITHOUT INTERRUPTION, IN SUCH A MANNER AS NOT TO CAUSE SEGREGATION. EACH LIFT SHALL BE VIBRATED. WHERE CONCRETE DROPS ARE MORE THAN 5 FEET, CONCRETE SHALL BE PLACED USING A CHUTE, TREMIE, OR PUMP HOSE.
- C-22 CONTRACTOR SHALL INSTALL ALL ANCHOR BOLTS AND EMBEDDED ITEMS.
- C-23 SHOP DRAWINGS, BAR LISTS, AND PLACEMENT, PLANS FOR ALL REINFORCING STEEL SHALL BE SUBMITTED IN DUPLICATE TO THE ENGINEER FOR APPROVAL.
- C-24 TESTING LABORATORY SERVICES FOR QUALITY CONTROL OF CAST-IN-PLACE CONCRETE SHALL BE PROVIDED BY THE CONTRACTOR. TESTING SERVICE SHALL INCLUDE PREPARATION AND TESTING OF CONCRETE COMPRESSION CYLINDERS AND SLUMP TESTS AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- C-25 ALL DRILLED/EPOXY SET FOR ANCHORS OR DOWELS SHALL BE AS MANUFACTURED BY HILTI.

CLEAR SPACING ≥ 3"	BASIC DEVELOPMENT LENGTH d_B				CLASS B SPLICE LENGTH $1.3 \times d_B$			
	BASIC	TOP *	BASIC	TOP *	BASIC	TOP *	BASIC	TOP *
1'-0"	1'-0"	1'-0"	1'-4"	# 3	1'-0"	1'-3"	1'-4"	1'-8"
1'-0"	1'-3"	1'-7"	2'-1"	# 4	1'-3"	1'-8"	2'-1"	2'-9"
1'-3"	1'-7"	2'-4"	3'-0"	# 5	1'-7"	2'-0"	3'-0"	3'-11"
1'-6"	1'-11"	3'-1"	4'-0"	# 6	1'-11"	2'-5"	4'-0"	5'-2"
2'-5"	3'-1"	4'-11"	6'-4"	# 7	3'-1"	4'-0"	6'-4"	8'-3"
3'-0"	3'-11"	6'-0"	7'-6"	# 8	3'-11"	5'-1"	7'-6"	10'-1"
3'-8"	4'-9"	6'-9"	8'-9"	# 9	4'-9"	6'-3"	8'-9"	11'-4"
4'-6"	5'-10"	7'-7"	9'-10"	# 10	5'-10"	7'-7"	9'-10"	12'-9"
5'-5"	7'-0"	8'-5"	10'-11"	# 11	7'-0"	9'-1"	10'-11"	14'-2"

BAR SIZE	DEVELOPMENT LENGTH d_{dh}	
	BASIC	W/ CONC COVER *
#3	8"	6"
#4	10"	7"
#5	1'-0"	9"
#6	1'-3"	11"
#7	1'-5"	1'-0"
#8	1'-7"	1'-2"
#9	1'-10"	1'-4"
#10	2'-1"	1'-6"
#11	2'-3"	1'-7"

SECTION AND DETAIL KEY

A
B
C

- A/1 SECTION LETTER / DETAIL NUMBER
- B DRAWING ON WHICH SECTION/DETAIL IS FIRST CUT
- C DRAWING ON WHICH SECTION/DETAIL IS LOCATED

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER

CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE NO. 072797-1

MEP ENGINEER

2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021
NO.	REVISION/ISSUE	DATE

SEAL

PROJECT

LIBERTY PLAZA SUITES

500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO.:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	N.T.S

DRAWING TITLE

STRUCTURAL GENERAL NOTES

SHEET NO. **S-001**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

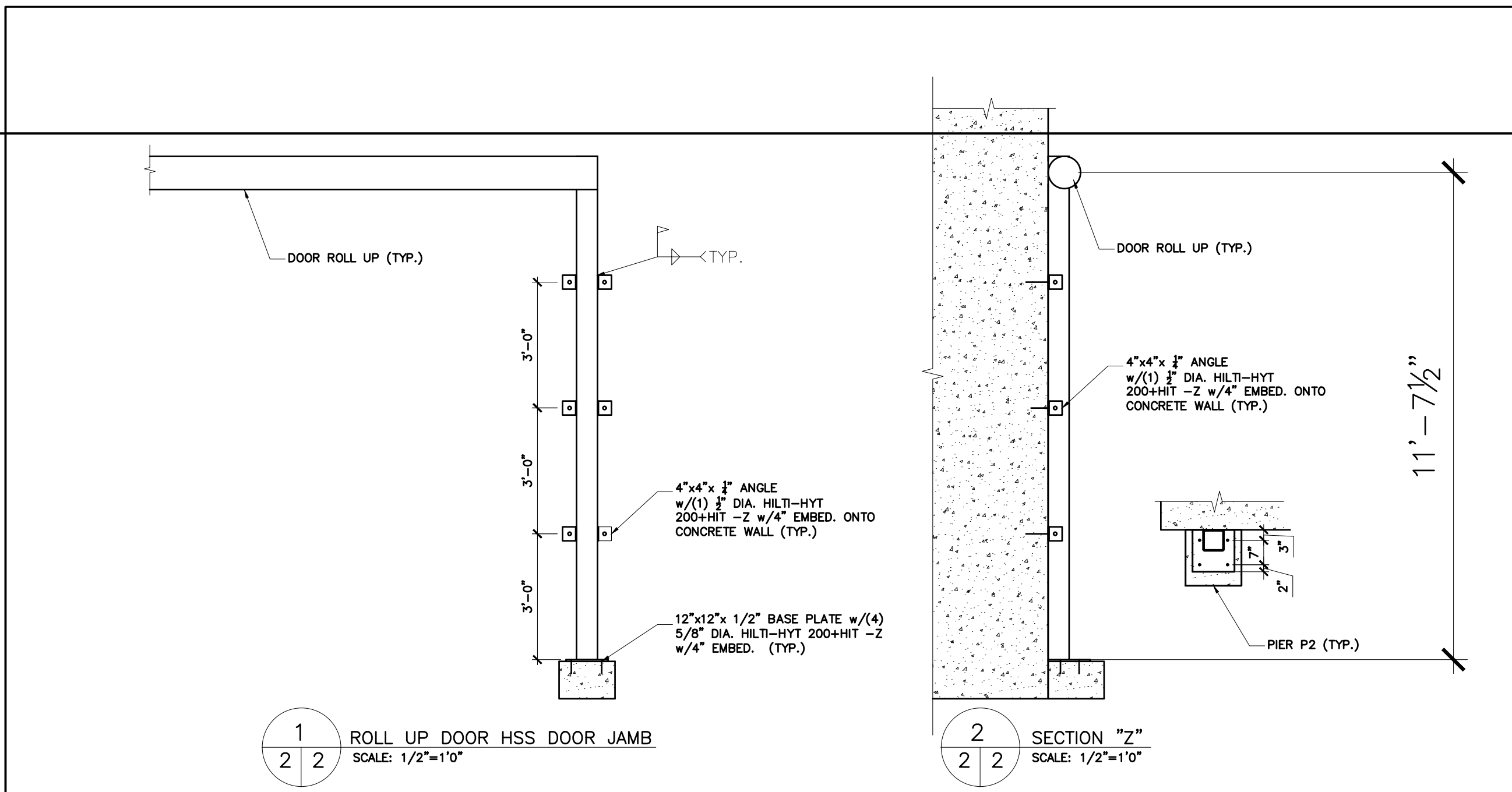
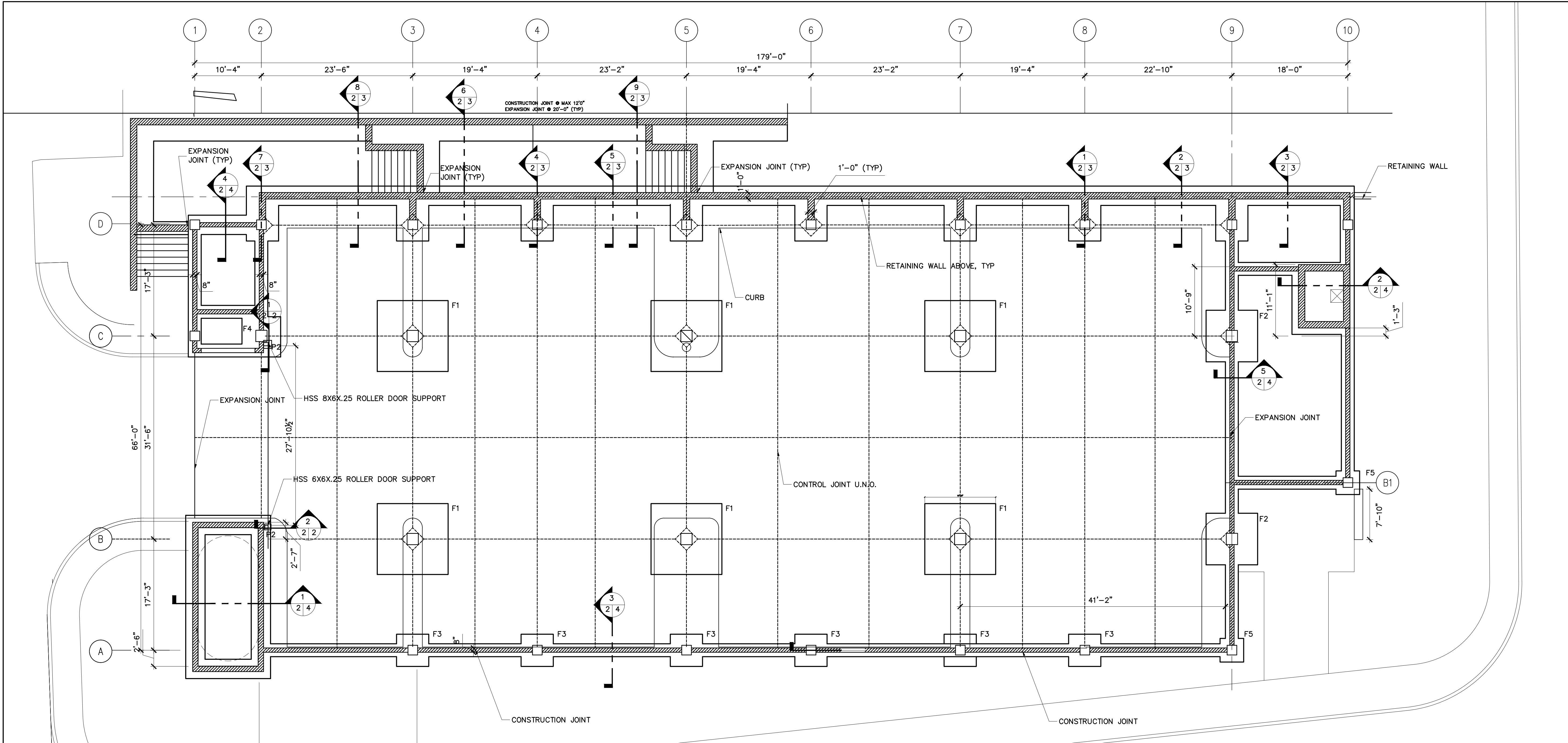
SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: MU
CHECKED BY: MR
SCALE: 1/8"=1'-0"

DRAWING TITLE
STRUCTURAL FOUNDATION PLAN

SHEET NO. **S-002**



LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

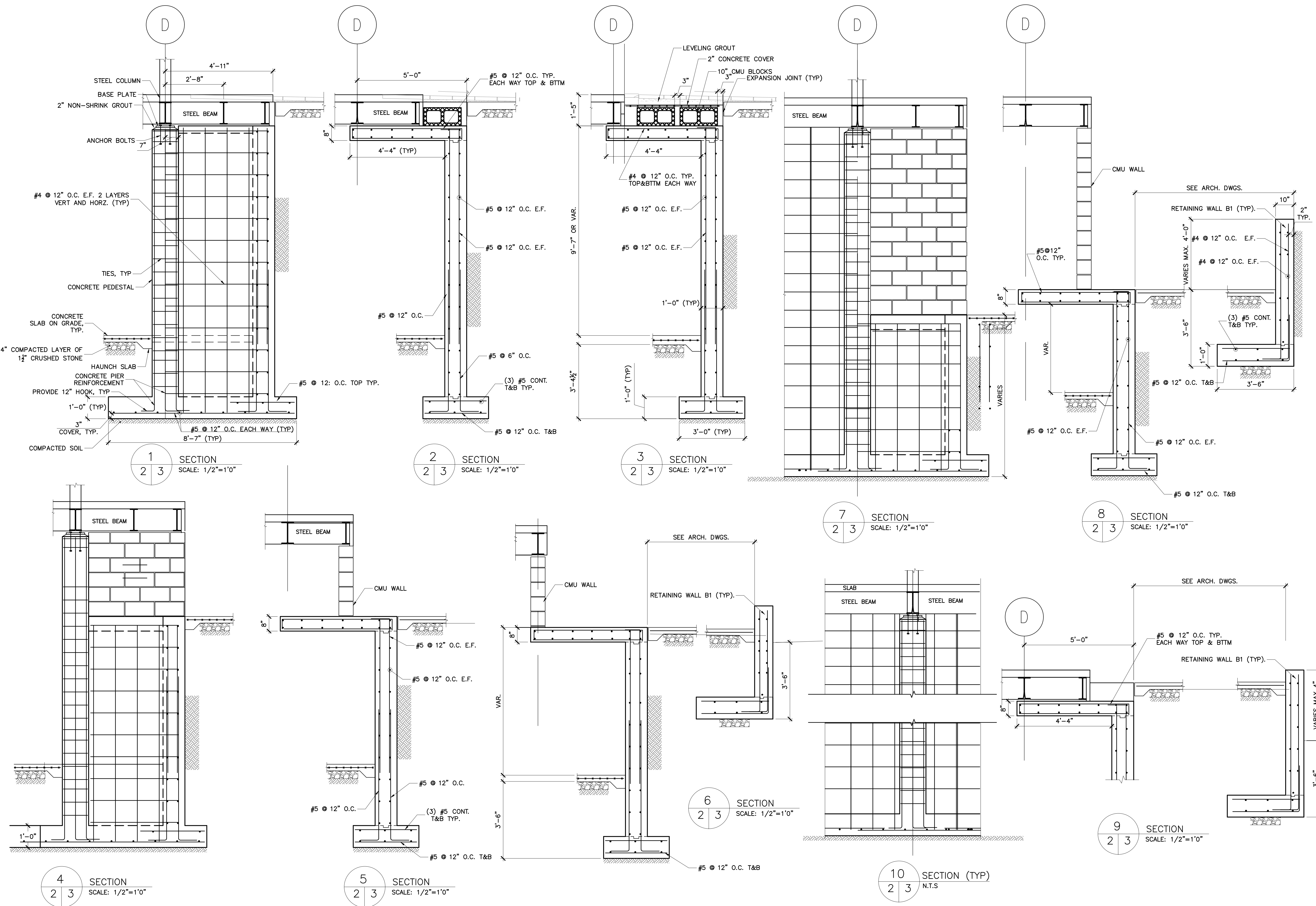
ARCHITECT

 59 Kensico Road, Thornwood, NY 10594
 (914) 747-3500 | (914) 747-3588 fax
 www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
 CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE NO. 072797-1

MEP ENGINEER



NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
 500 COMMERCE ST.
 TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	AS NOTED

DRAWING TITLE
**STRUCTURAL
 RETAINING WALL SECTIONS**

SHEET NO. **S-003**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

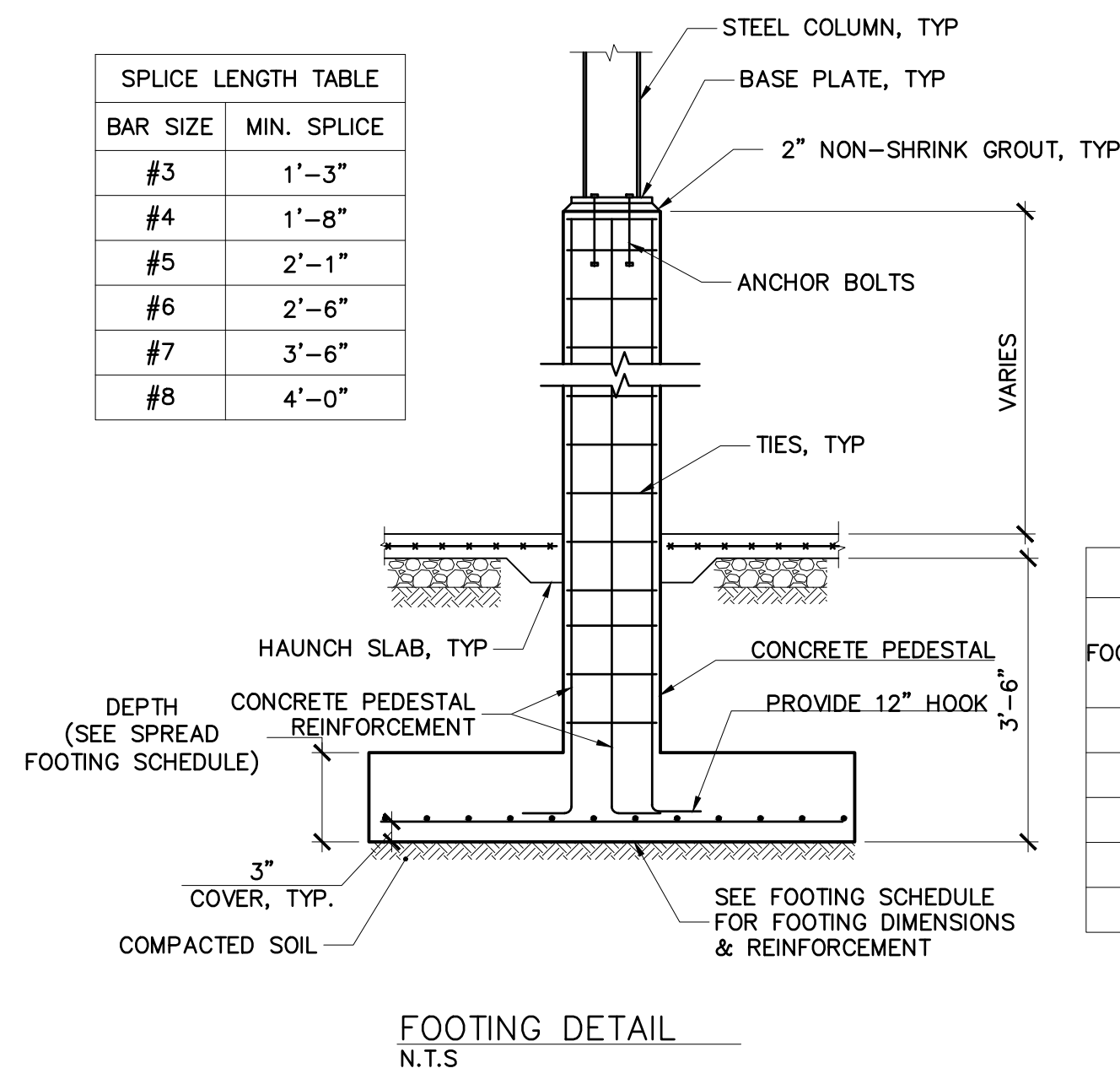
ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 225, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

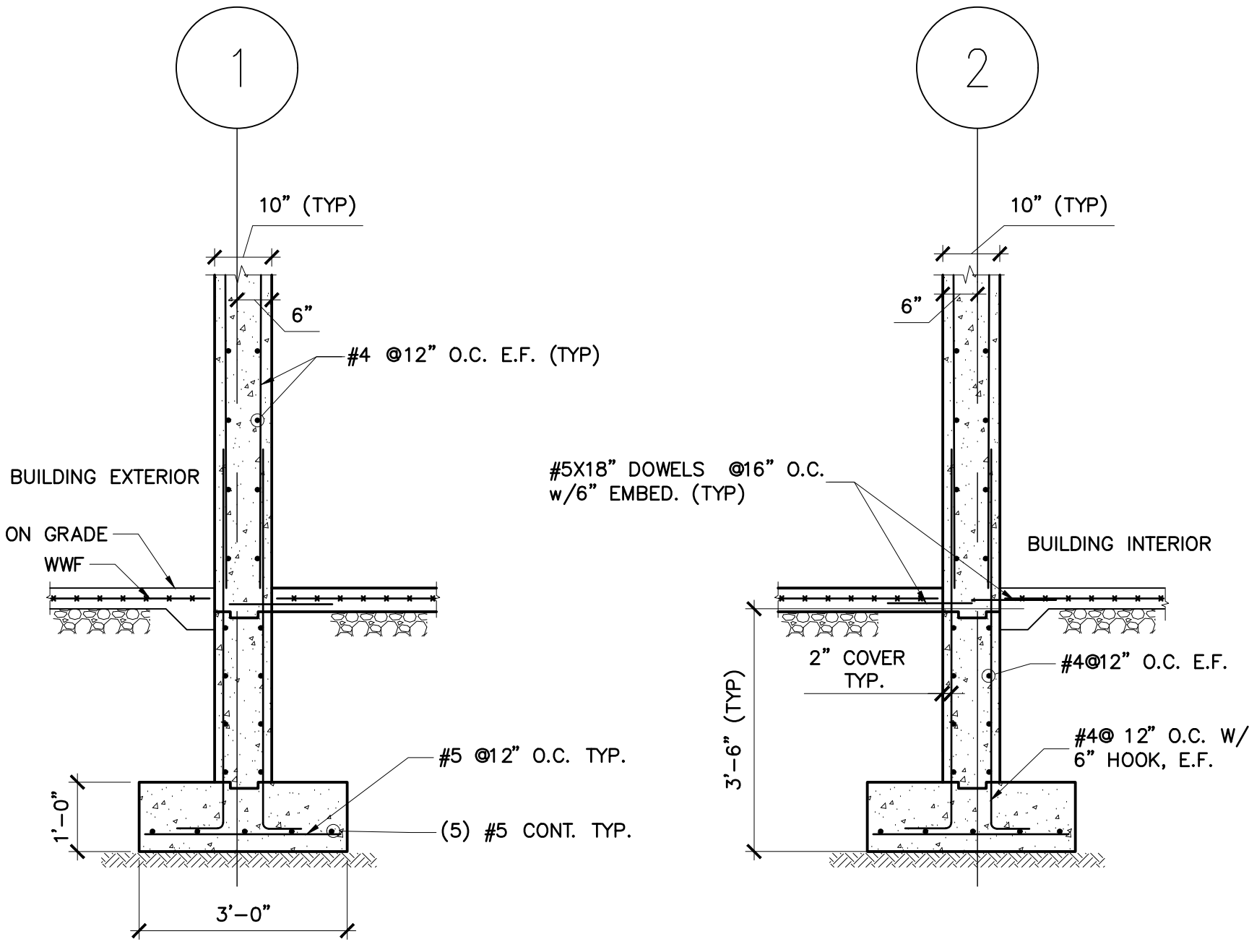
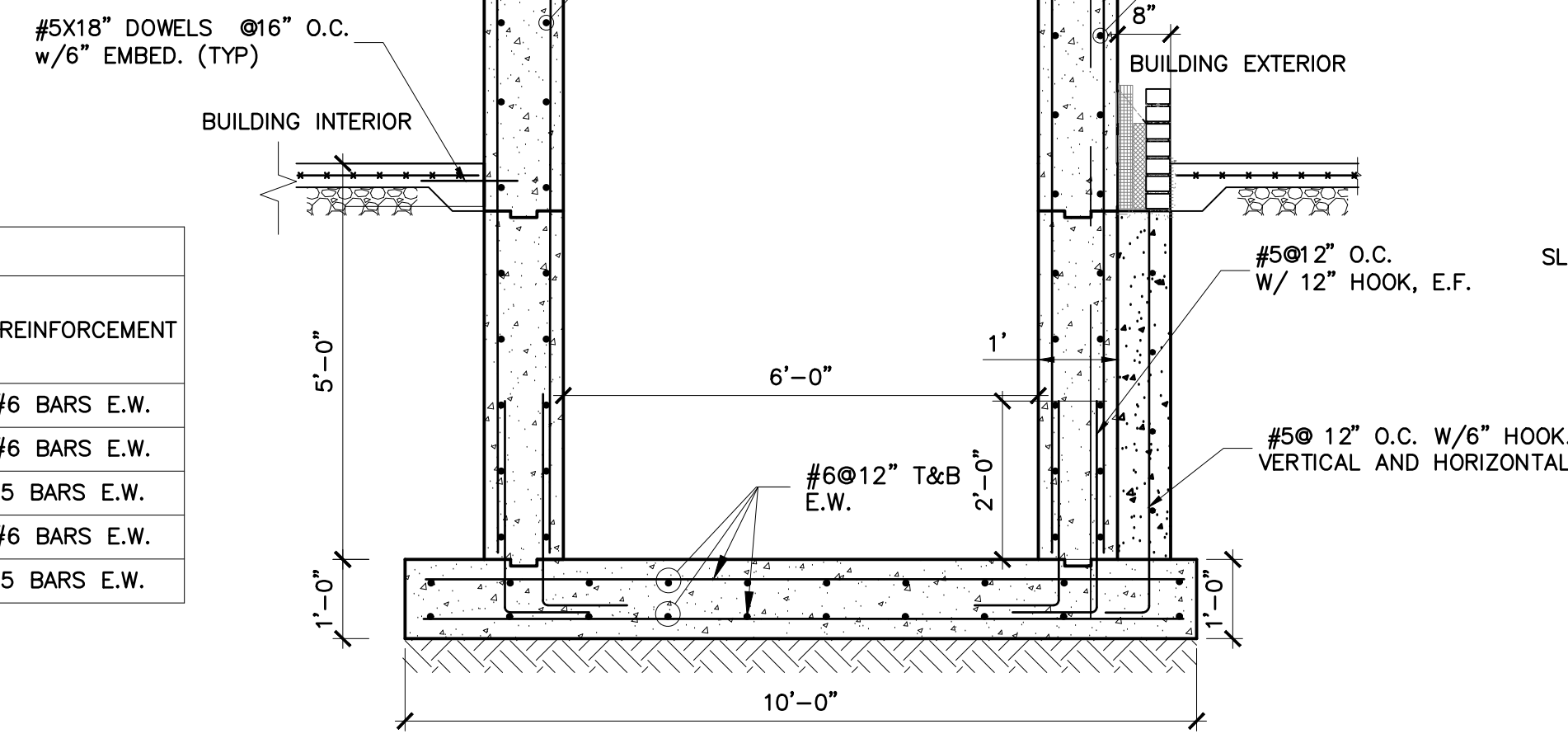
MEP ENGINEER

SPLICE LENGTH TABLE	
BAR SIZE	MIN. SPLICE
#3	1'-3"
#4	1'-8"
#5	2'-1"
#6	2'-6"
#7	3'-6"
#8	4'-0"



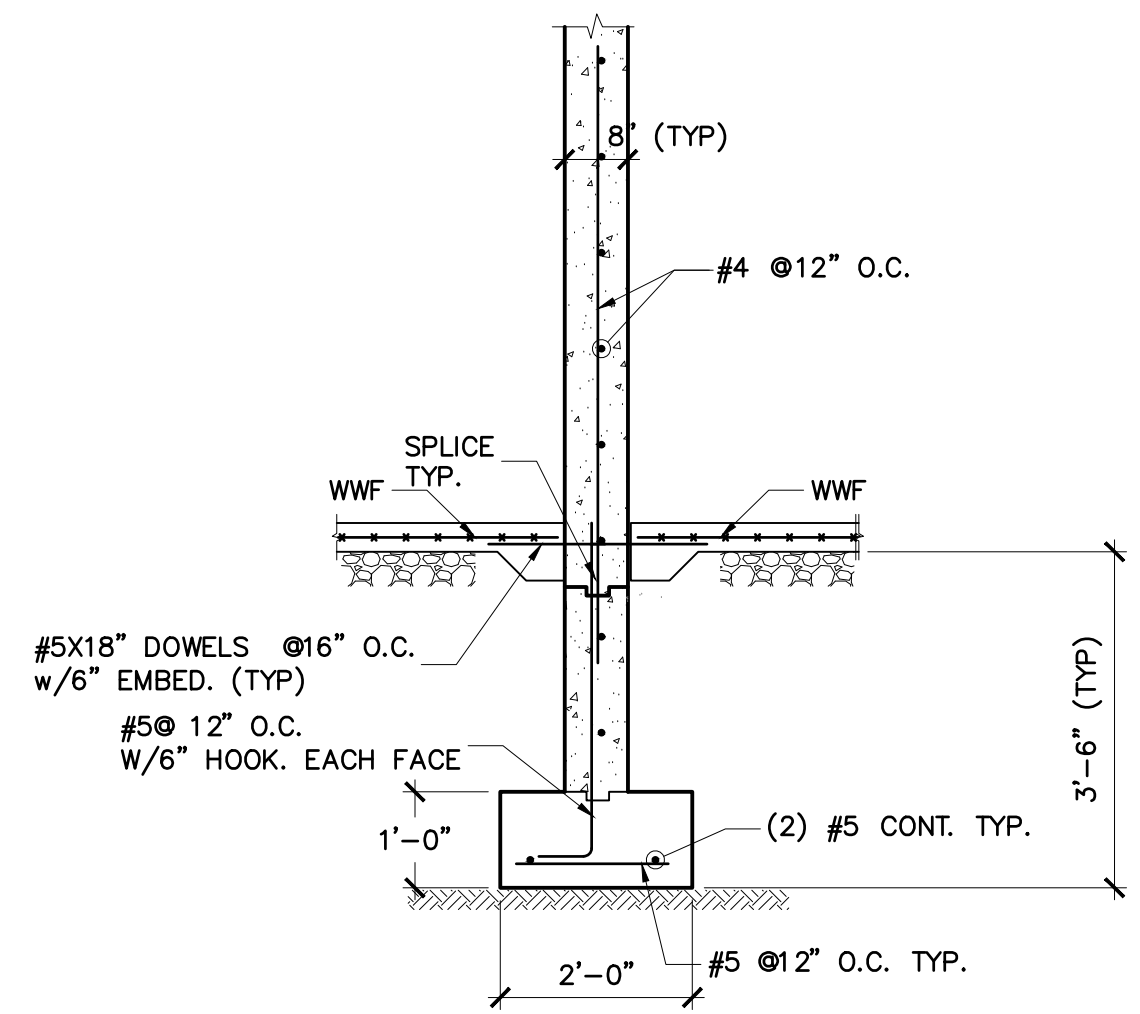
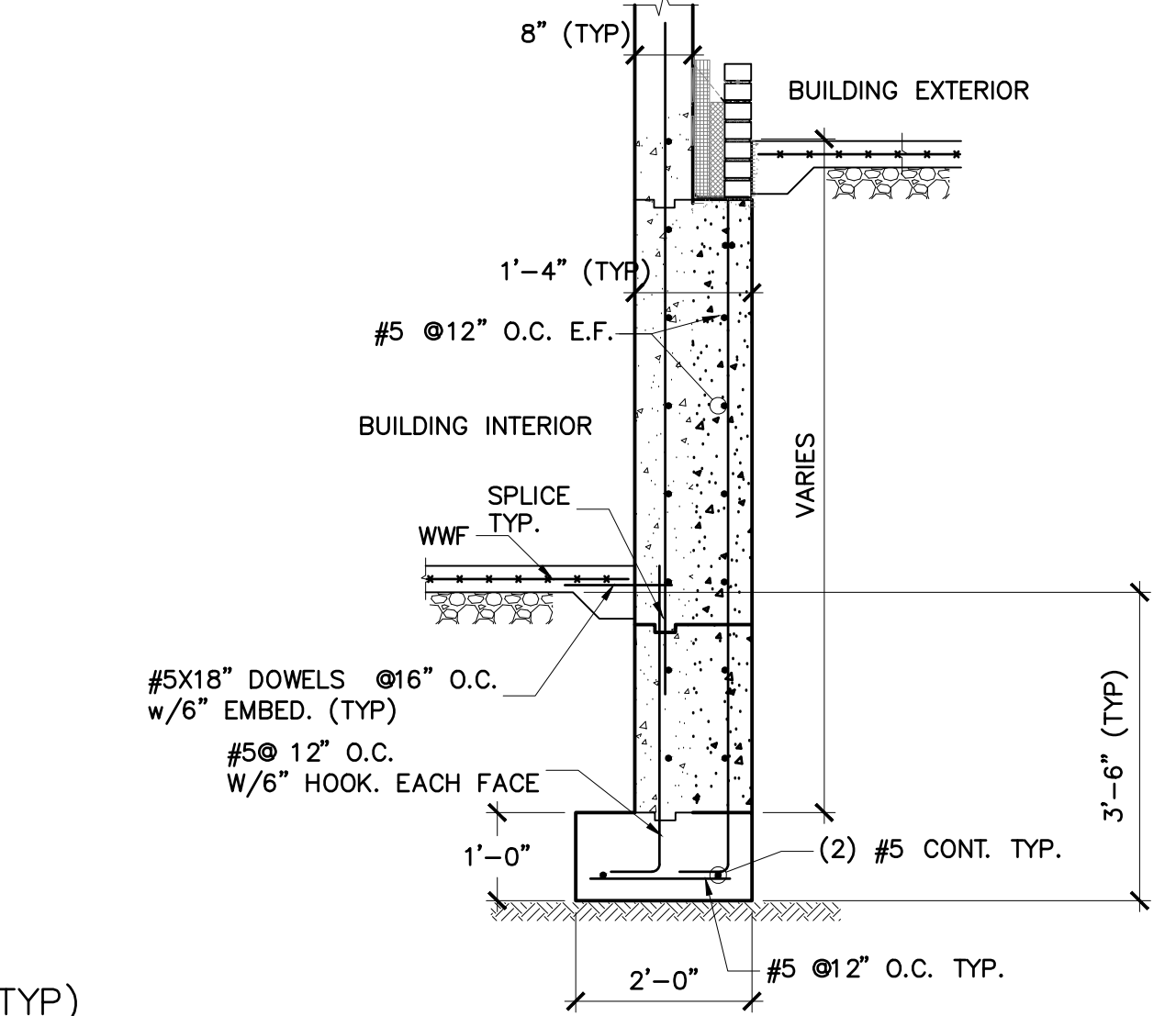
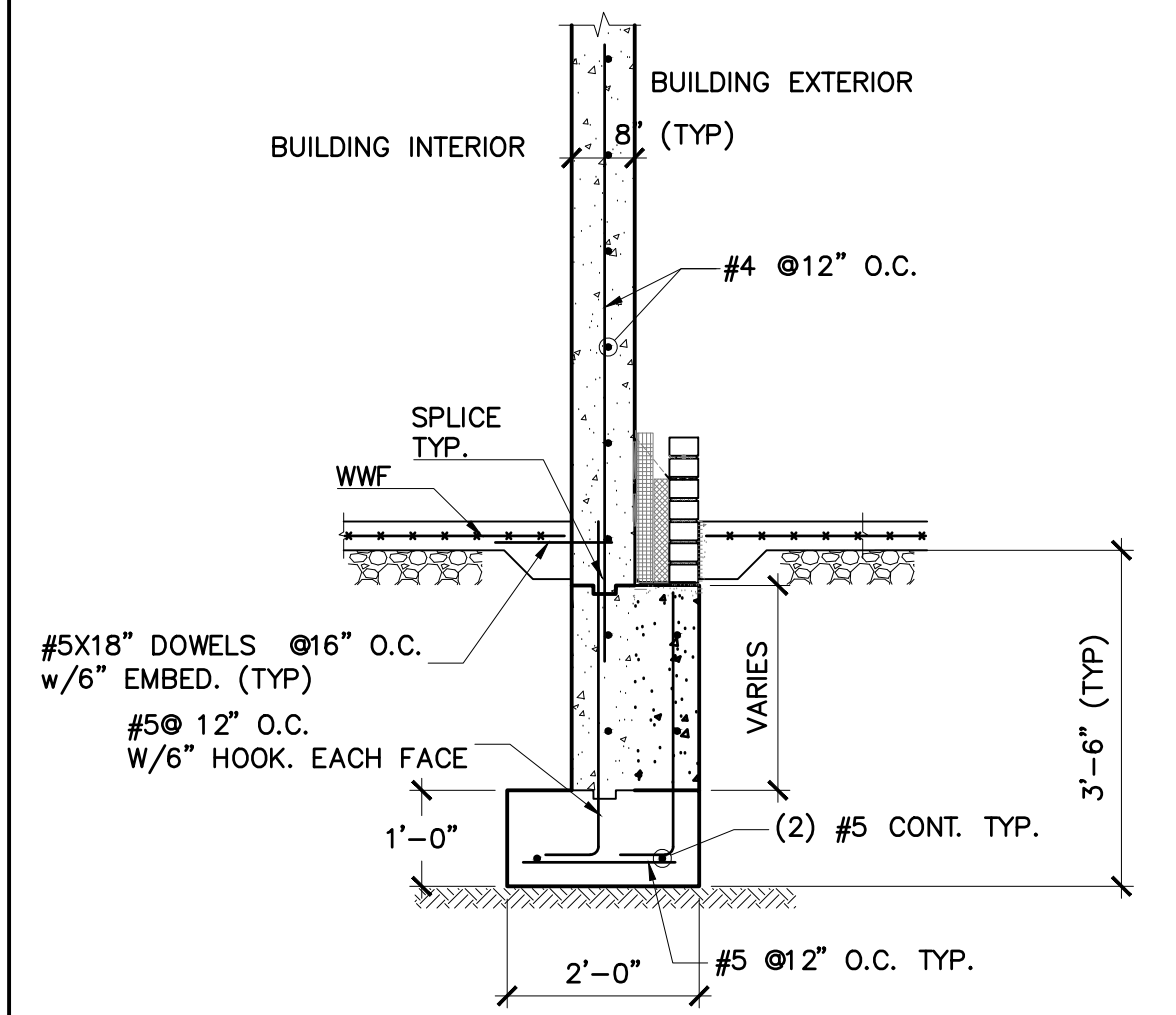
PEDESTAL SCHEDULE		
TYPE	P1	P2
FOUNDATION.	F1&F2	F3,F4 & F5
COLUMN SIZE	21"x21"	18"x18"
VERTICALS	12#7	8#5
TIES	#3 @11"	#3 @7"
LAP ABOVE	4'-0"	4'-0"

FOOTING SCHEDULE				
FOOTING ID	FOOTING LENGTH	FOOTING BREADTH	FOOTING THICKNESS	STEEL REINFORCEMENT
F1	11'-0"	11'-0"	2'-0"	15-#6 BARS E.W.
F2	8'-0"	8'-0"	1'-6"	10-#6 BARS E.W.
F3	5'-0"	5'-0"	1'-0"	5-#5 BARS E.W.
F4	6'-0"	6'-0"	1'-0"	10-#6 BARS E.W.
F5	3'-8"	3'-8"	1'-0"	4-#5 BARS E.W.



2 4 FIRST FLOOR ELEVATOR SHAT SECTION
SCALE: 1/2"=1'0"

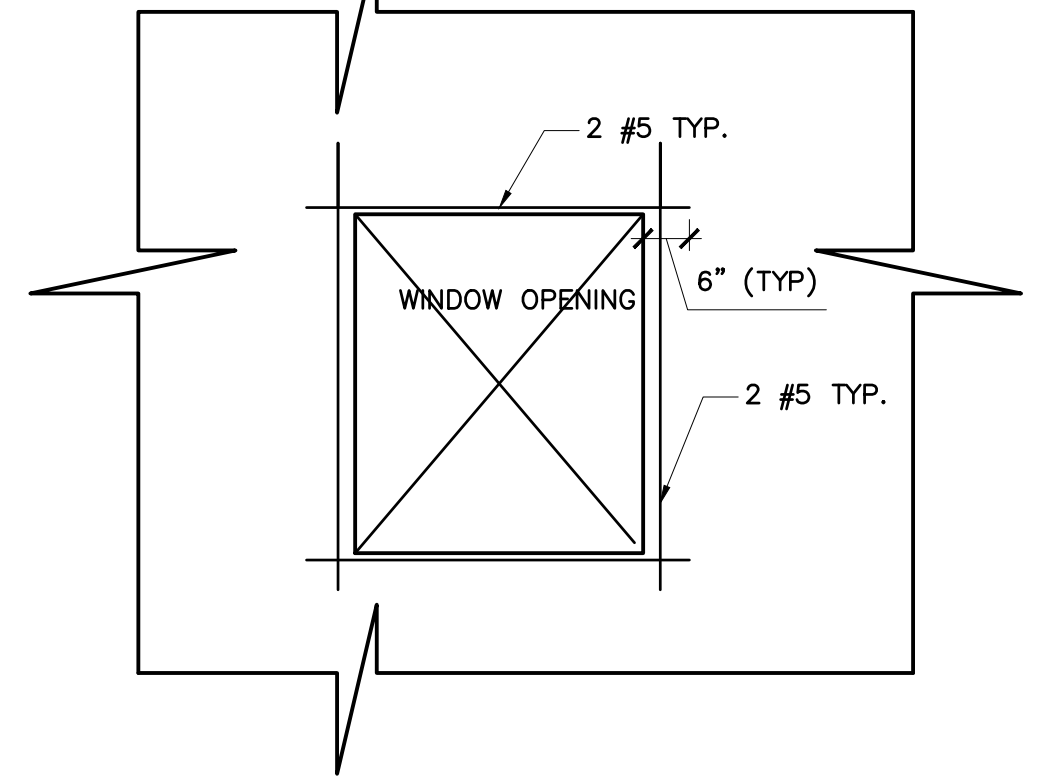
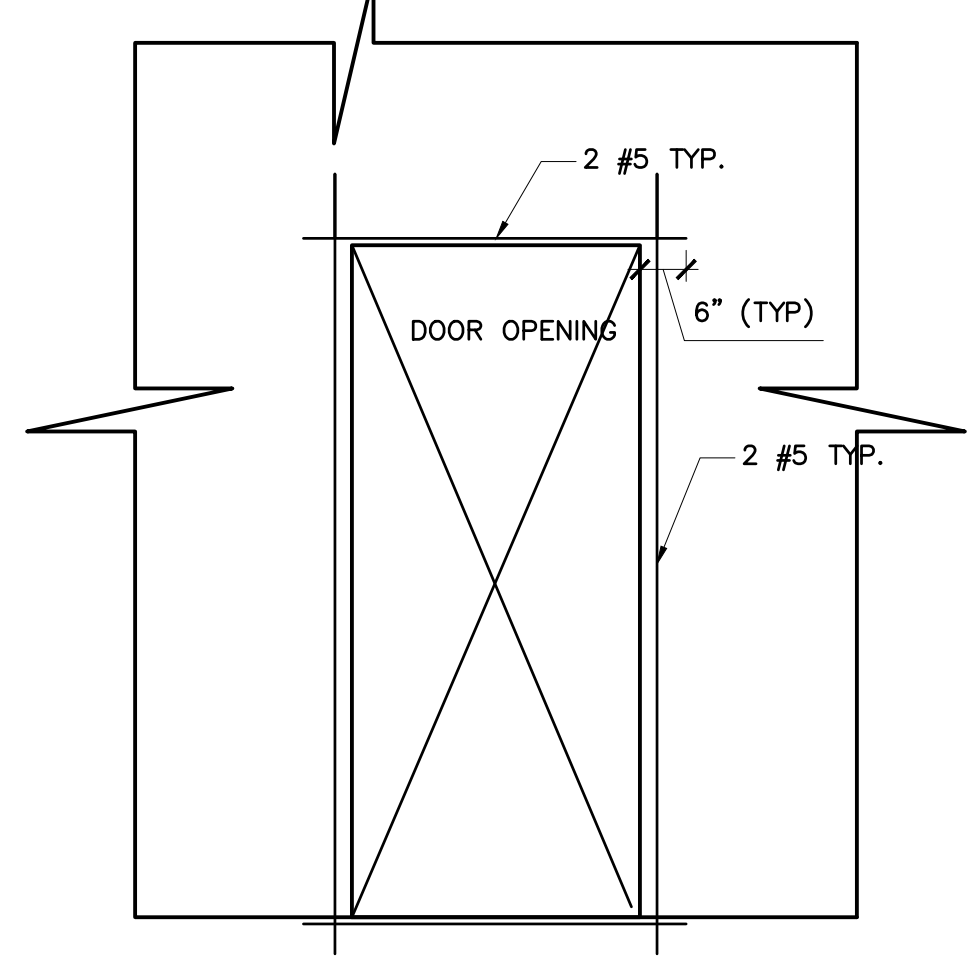
1 4 CONCRETE WALLS AND FOOTING AT FIRST FLOOR STAIRS
SCALE: 1/2"=1'0"



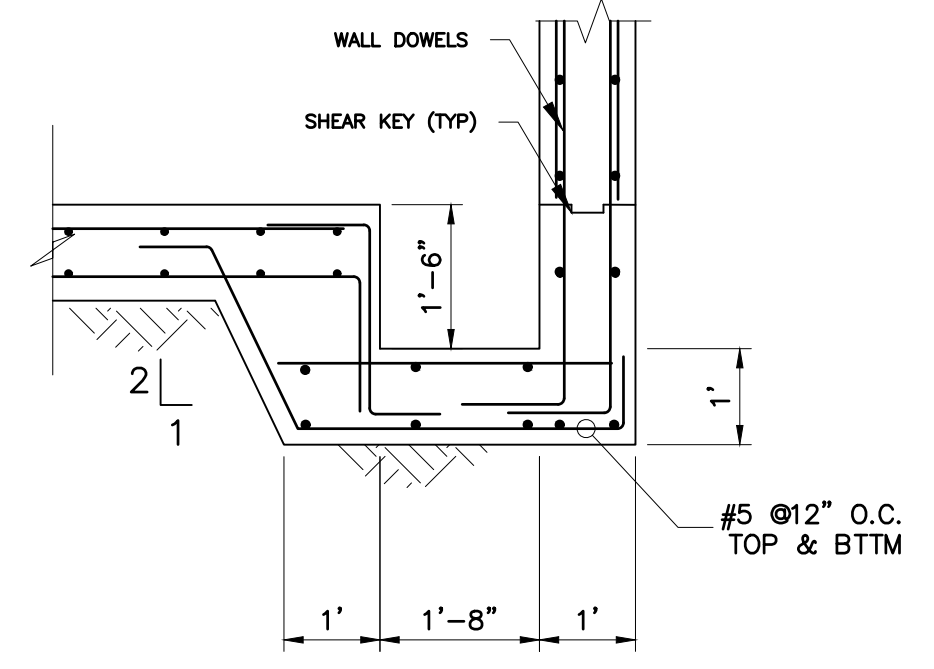
3 4 CONCRETE WALL FOUNDATION EXTERIOR (TYP)
N.T.S.

4 4 CONCRETE WALL FOUNDATION EXTERIOR (TYP)
N.T.S.

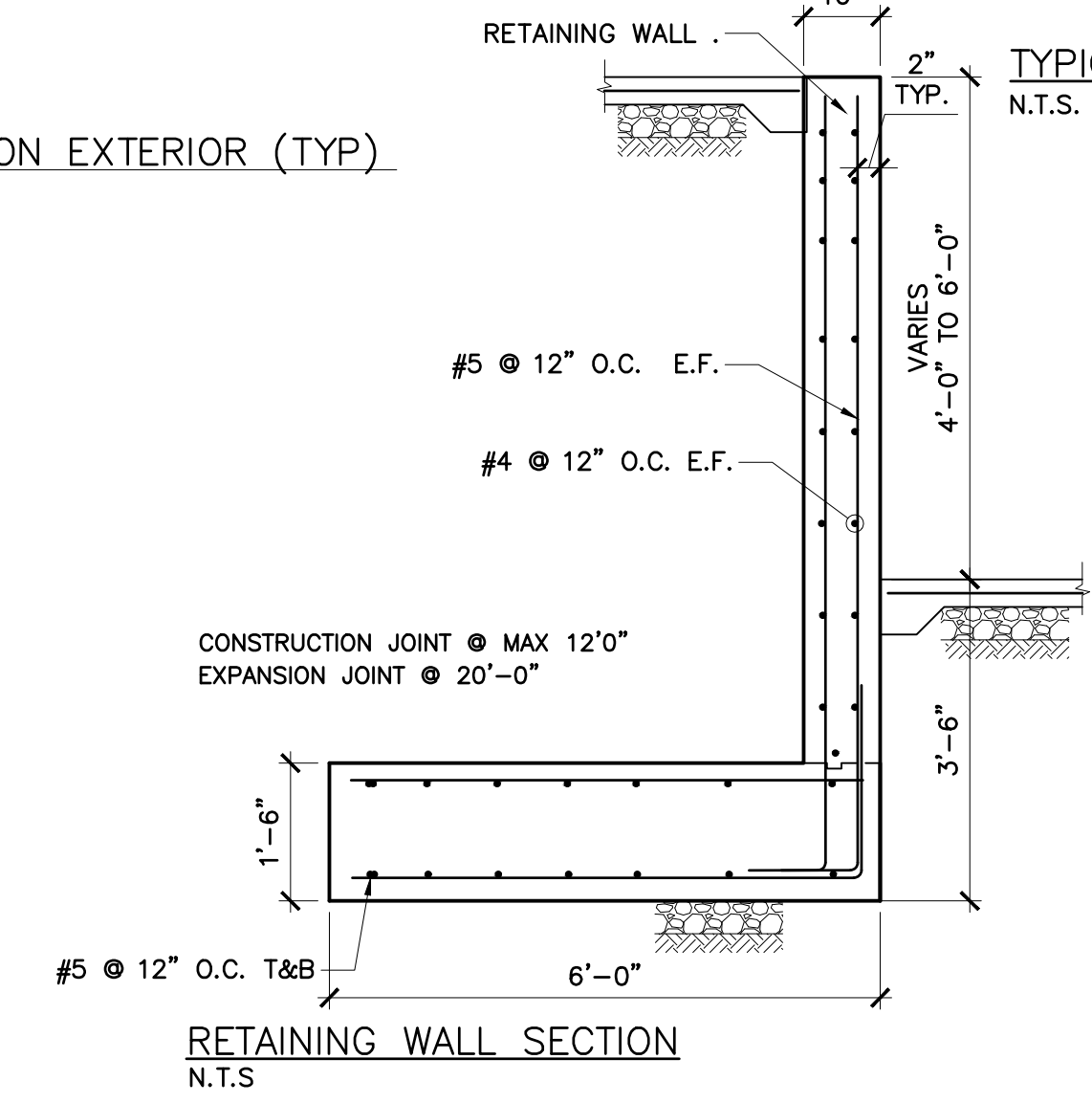
5 4 CONCRETE WALL FOUNDATION EXTERIOR (TYP)
N.T.S.



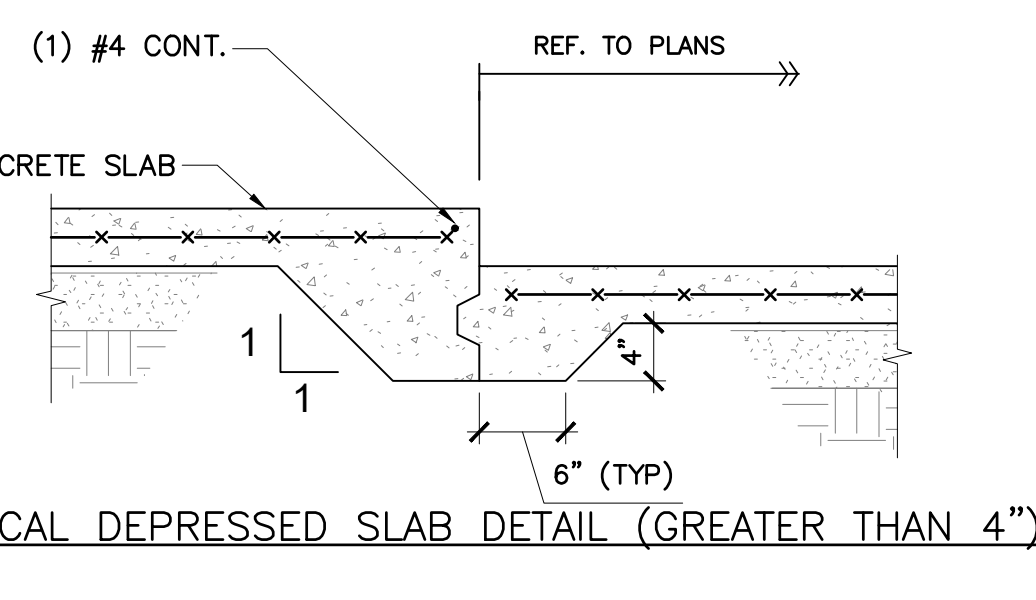
TYPICAL REINFORCEMENT FOR WINDOW OPENINGS ON CONCRETE WALLS
N.T.S.



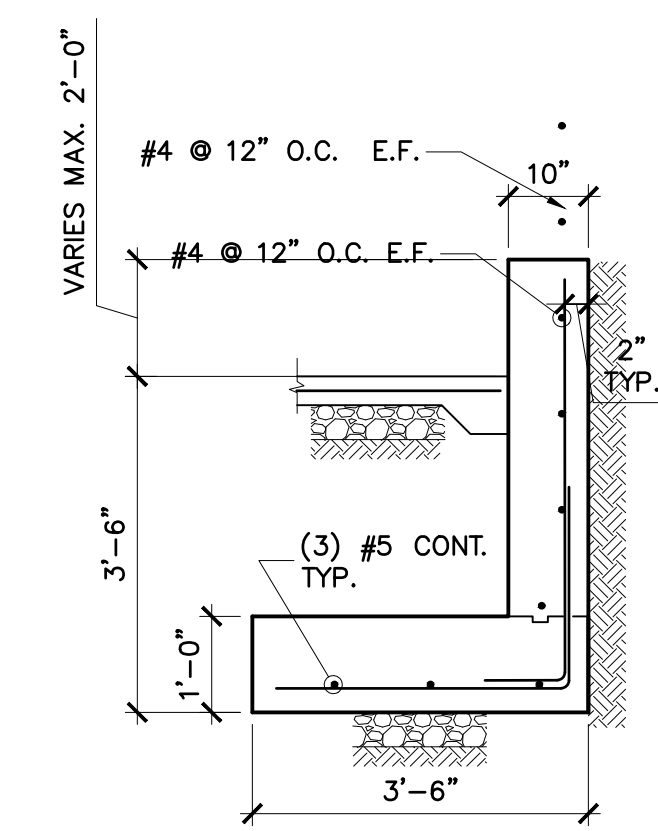
ELEVATOR SUMPUMP
N.T.S.



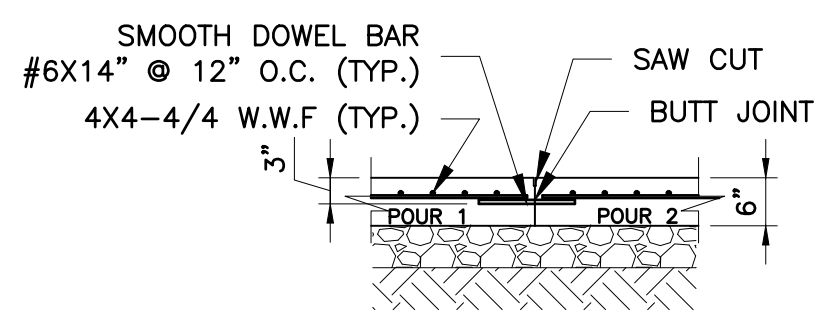
RETAINING WALL SECTION
N.T.S.



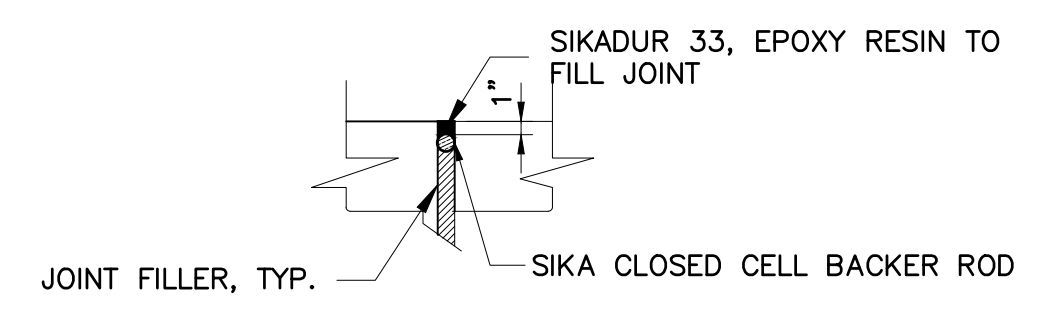
TYPICAL DEPRESSED SLAB DETAIL (GREATER THAN 4")
N.T.S.



RETAINING WALL AT LIBERTY ENTRANCE
N.T.S.



SLAB ON GRADE CONTRACTION JOINT DETAIL
N.T.S.



TYPICAL EXPANSION JOINT DETAIL
N.T.S.

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: MU
CHECKED BY: MR
SCALE: AS NOTED

DRAWING TITLE
STRUCTURAL FOOTINGS AND WALLS DETAILS

SHEET NO. S-004

LIBERTY PLAZA SUITES

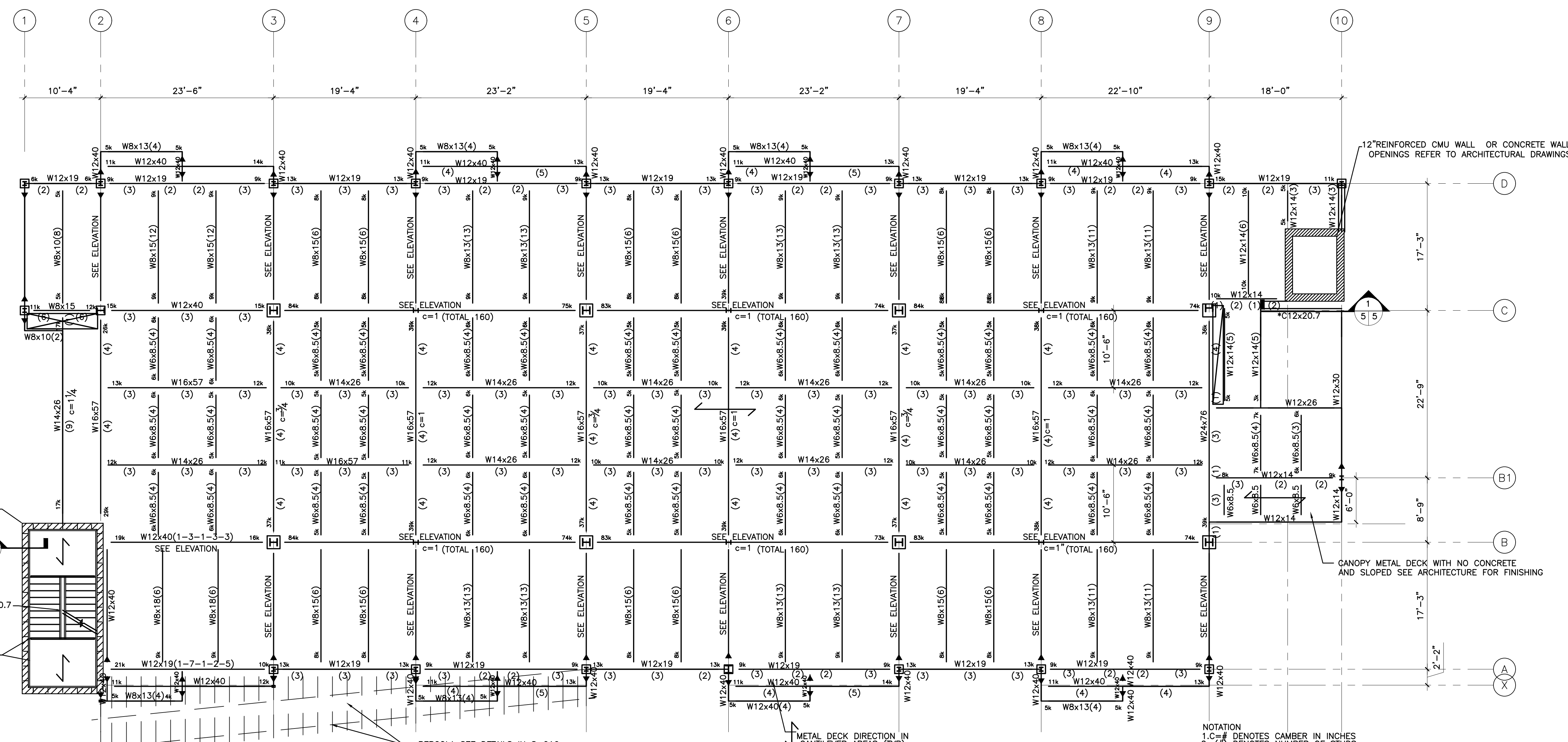
500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER



SECOND FLOOR PLAN
SCALE: 1/8"=1'0"

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

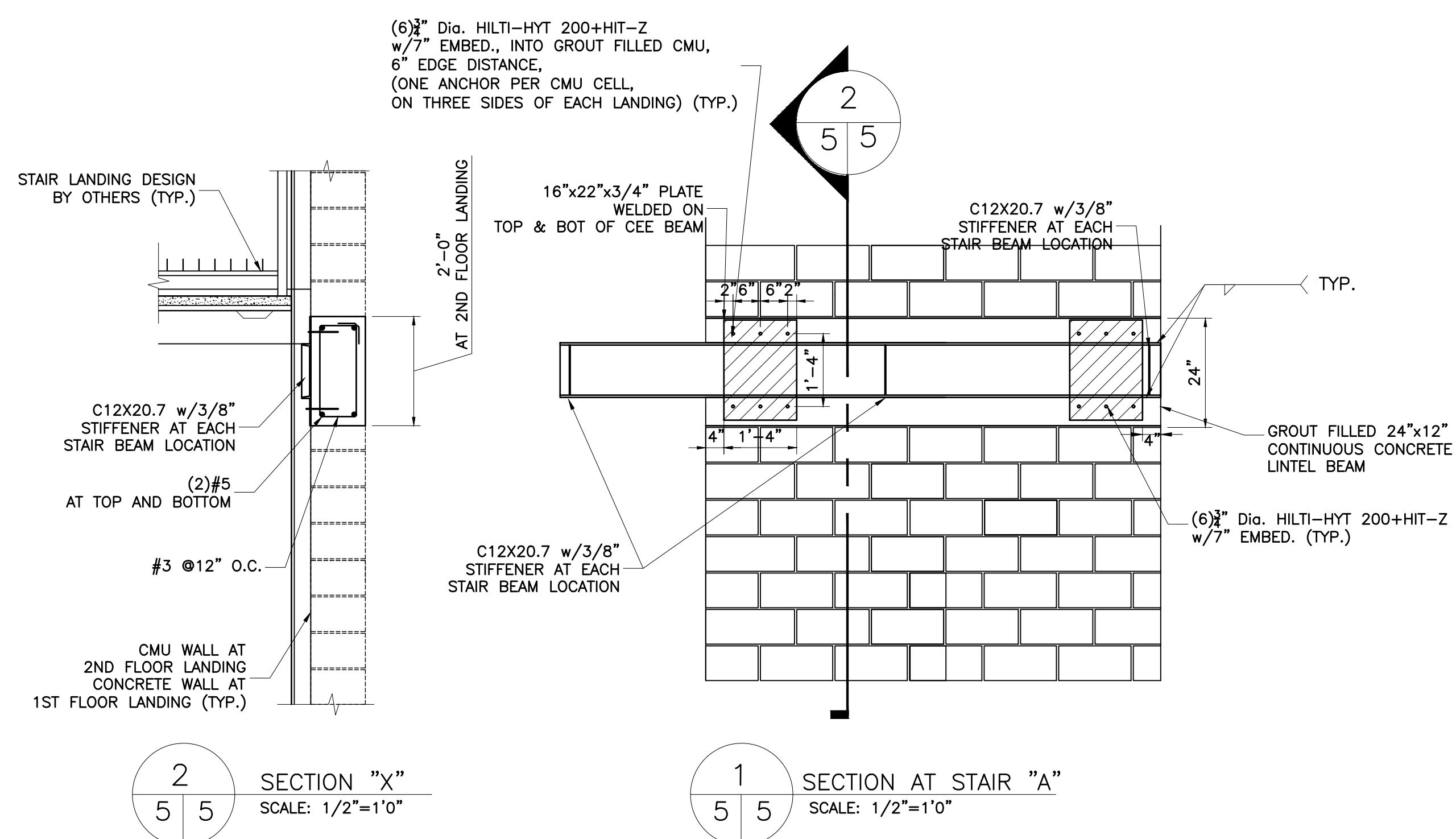
SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

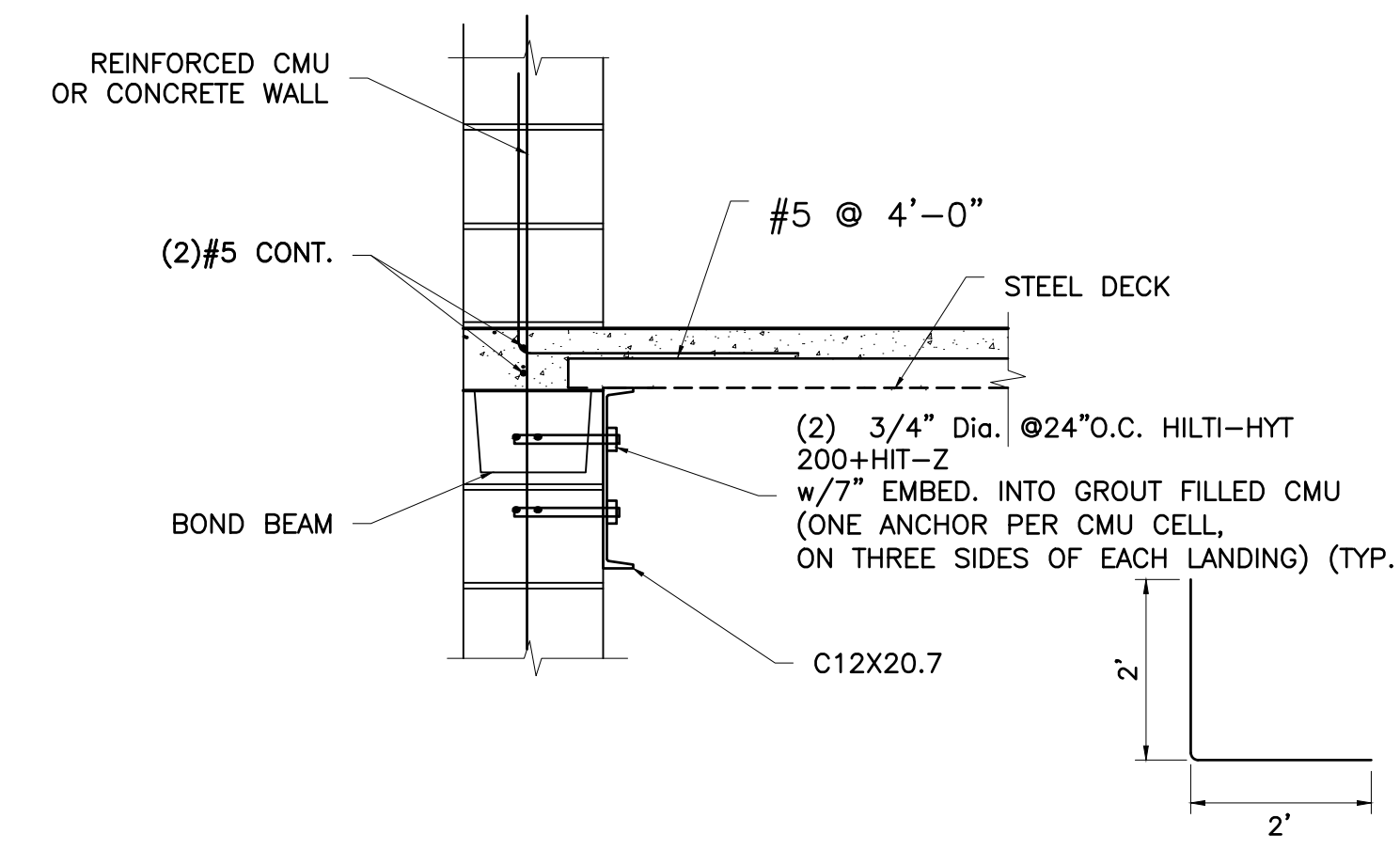
DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: MU
CHECKED BY: MR
SCALE: 1/8"=1'

DRAWING TITLE
STRUCTURAL SECOND FLOOR PLAN

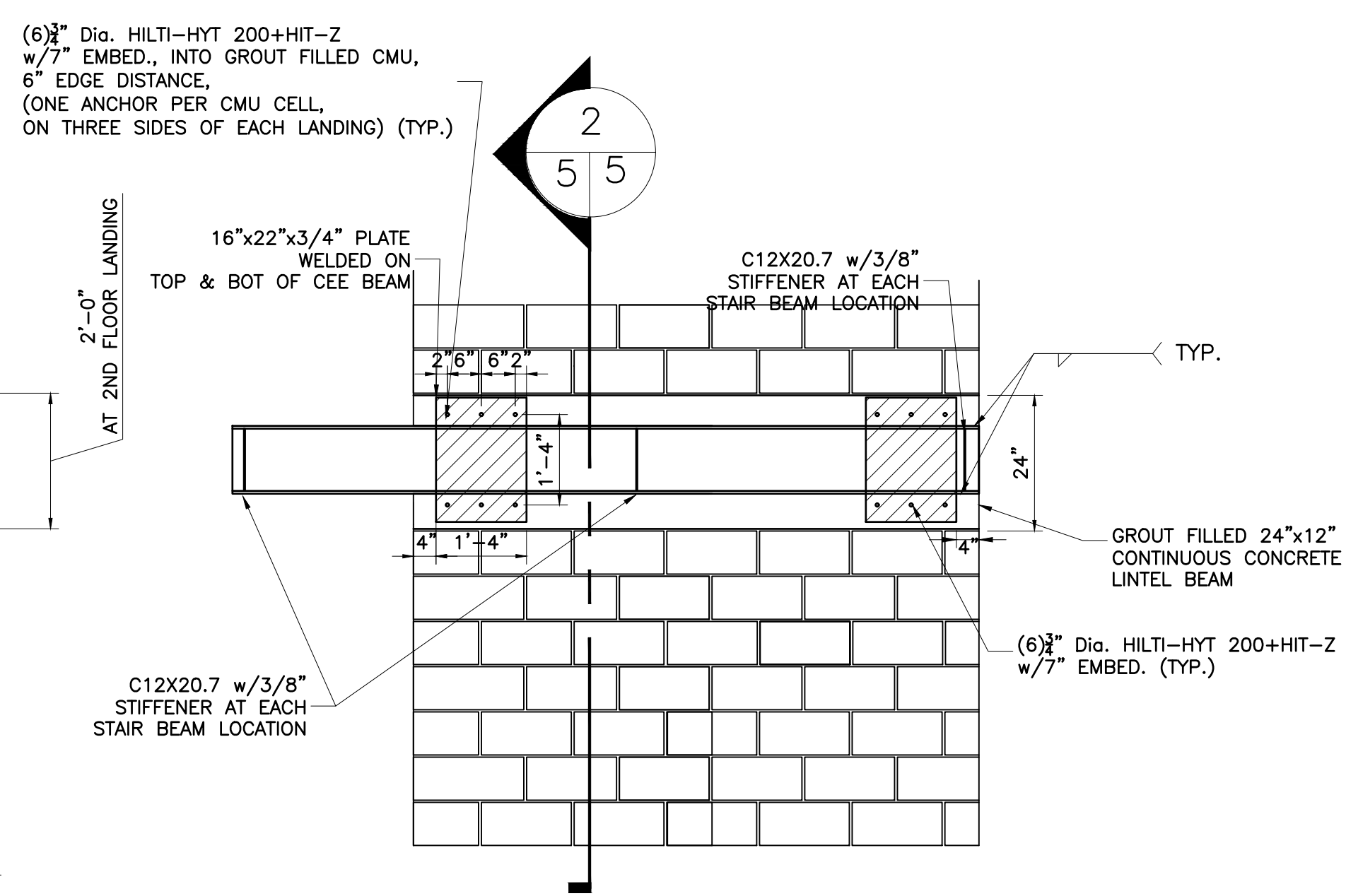
SHEET NO. **S-005**



2
5 5 SECTION "X"
SCALE: 1/2"=1'0"



3
5 5 SECTION AT STAIR LANDING (TYP)
SCALE: 1/2"=1'0"



1
5 5 SECTION AT STAIR "A"
SCALE: 1/2"=1'0"

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10523

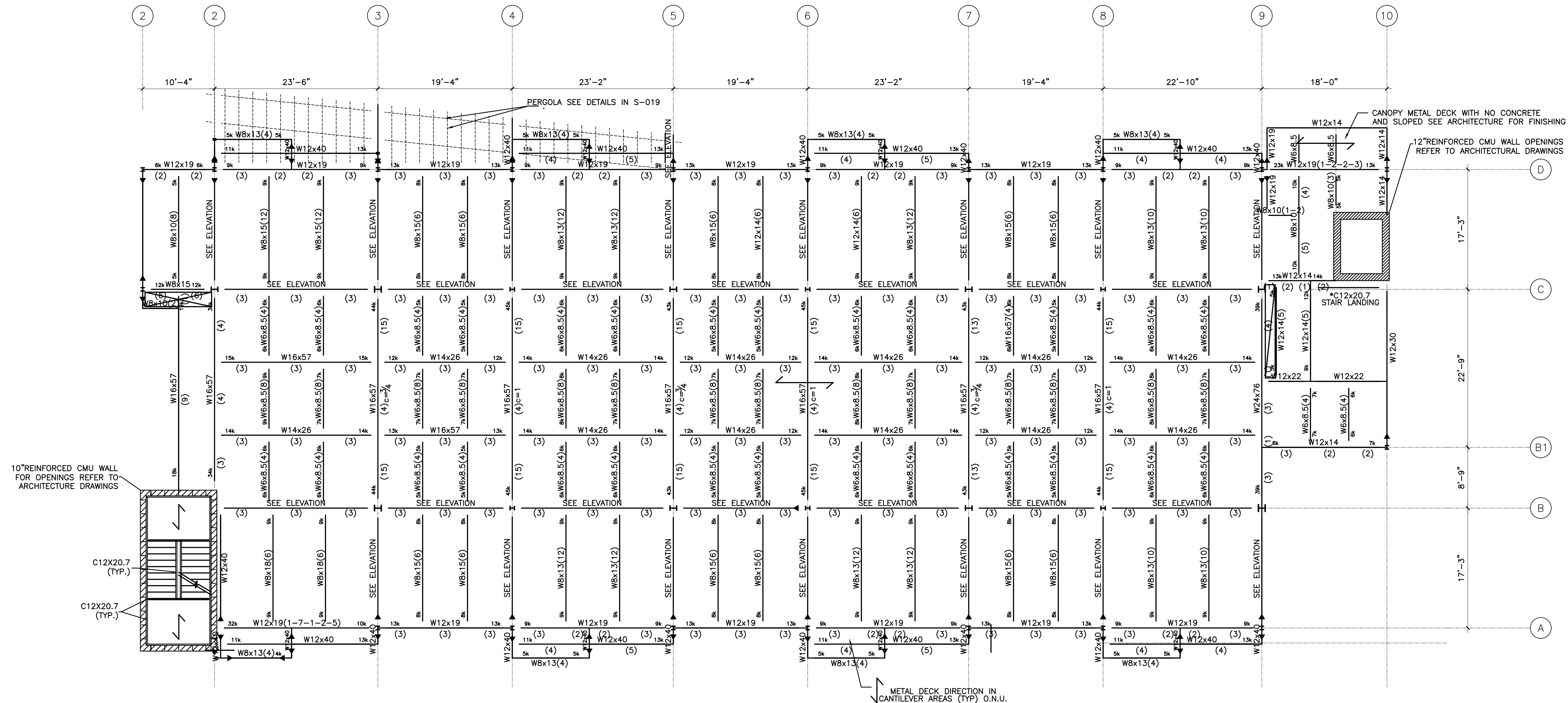
ARCHITECT

 59 Kensico Road, Thornwood, NY 10594
 (914) 747-3500 | (914) 747-3588 fax
 www.dimovskiararchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
 CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE NO. 072797-1

MEP ENGINEER



THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
 500 COMMERCE ST.
 TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO.:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	1/8"=1"

DRAWING TITLE
 STRUCTURAL
 THIRD FLOOR PLAN

SHEET NO. **S-006**

LIBERTY PLAZA SUITES

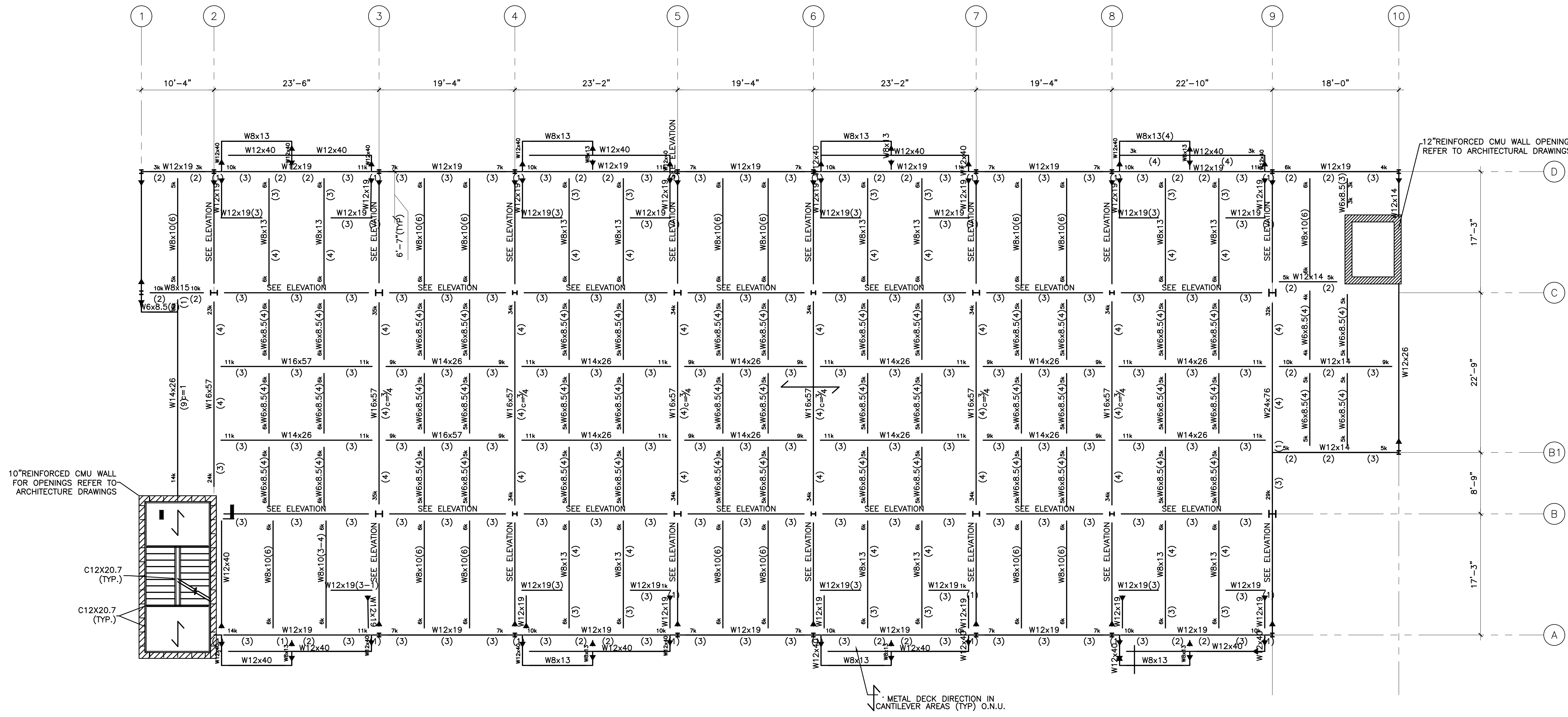
500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarhitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarhitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER



10" REINFORCED CMU WALL FOR OPENINGS REFER TO ARCHITECTURE DRAWINGS

12" REINFORCED CMU WALL OPENINGS REFER TO ARCHITECTURAL DRAWINGS

METAL DECK DIRECTION IN CANTILEVER AREAS (TYP) O.N.U.

ROOF FLOOR PLAN
SCALE: 1/8" = 1'0"

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	1/8"=1'

DRAWING TITLE
STRUCTURAL ROOF FLOOR PLAN

SHEET NO. **S-007**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

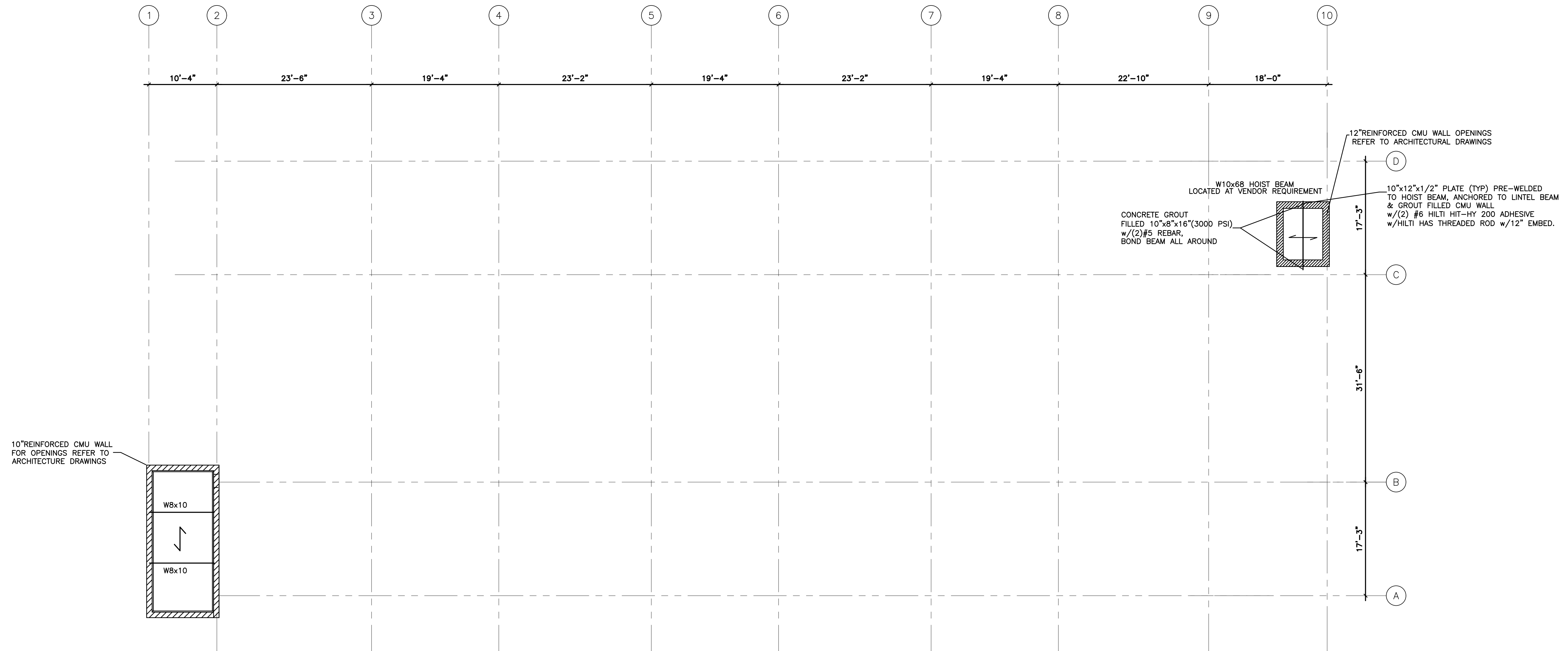
STRUCTURAL ENGINEER

CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 225, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER



STAIRS AND ELEVATOR
ROOF FLOOR PLAN
SCALE: 1/8"=1'0"

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO.:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	AS NOTED

DRAWING TITLE
STRUCTURAL
STAIRS AND ELEVATOR
ROOF FLOOR PLAN

SHEET NO. **S-008**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER

CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

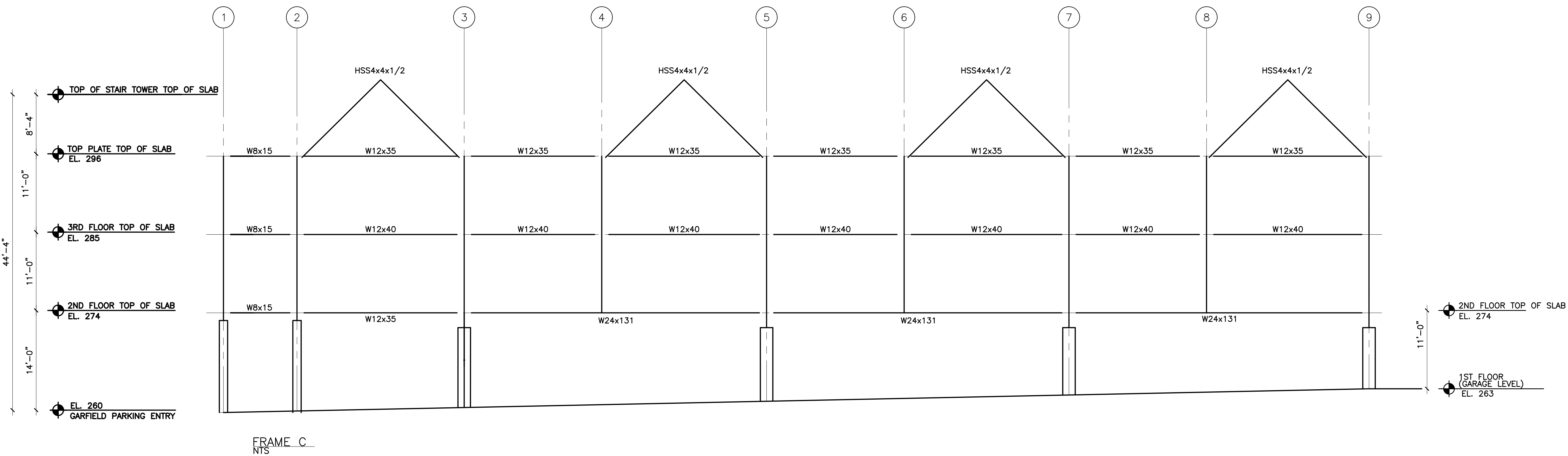
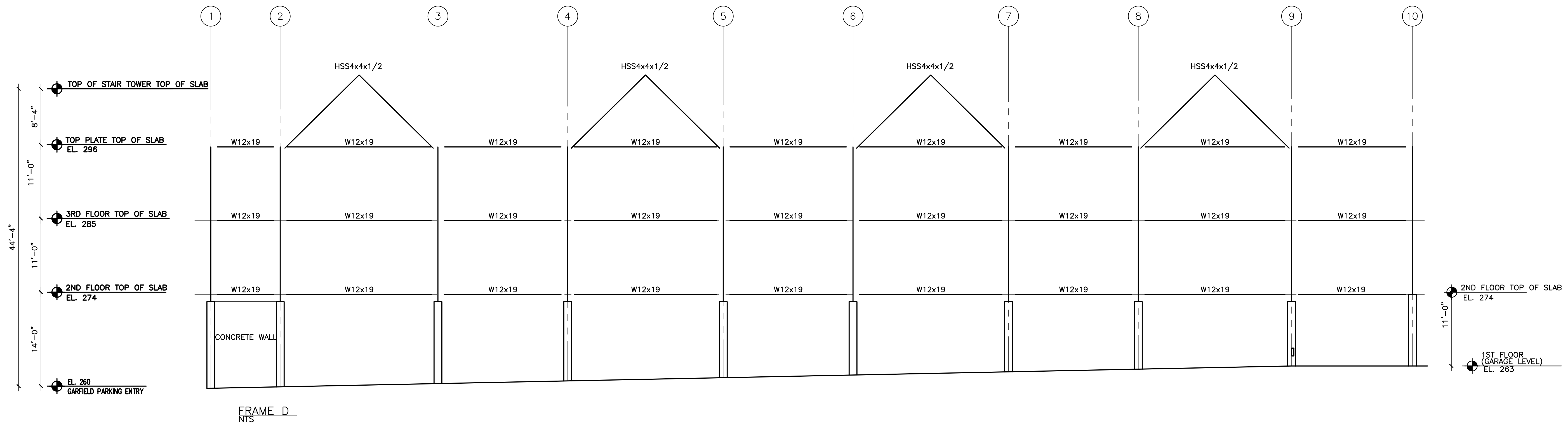
SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	AS NOTED

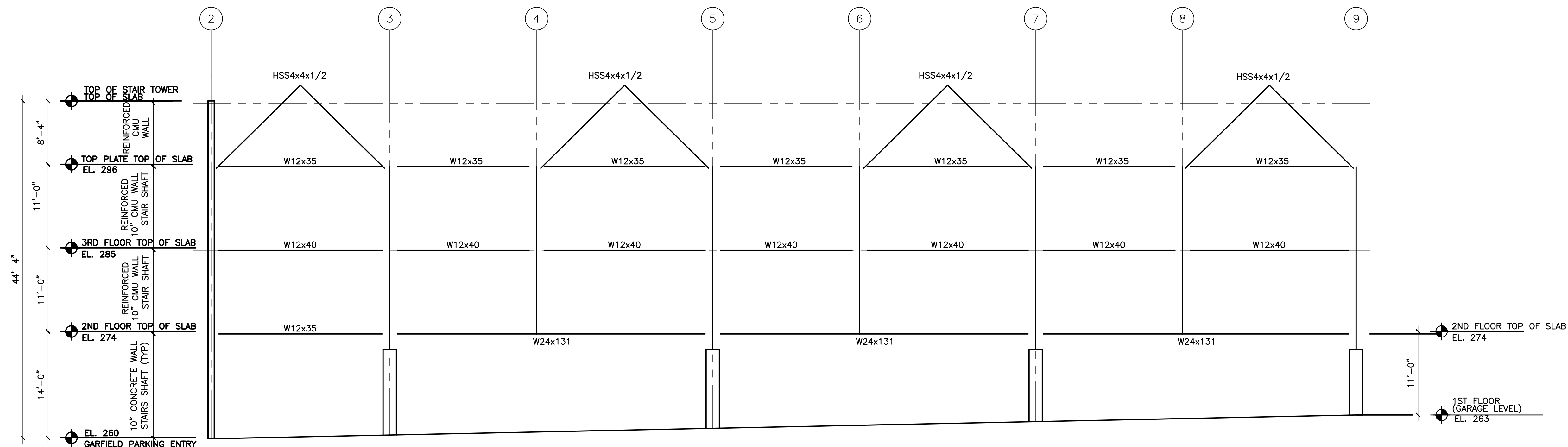
DRAWING TITLE
STRUCTURAL ELEVATIONS FRAMES C & D

SHEET NO. **S-009**

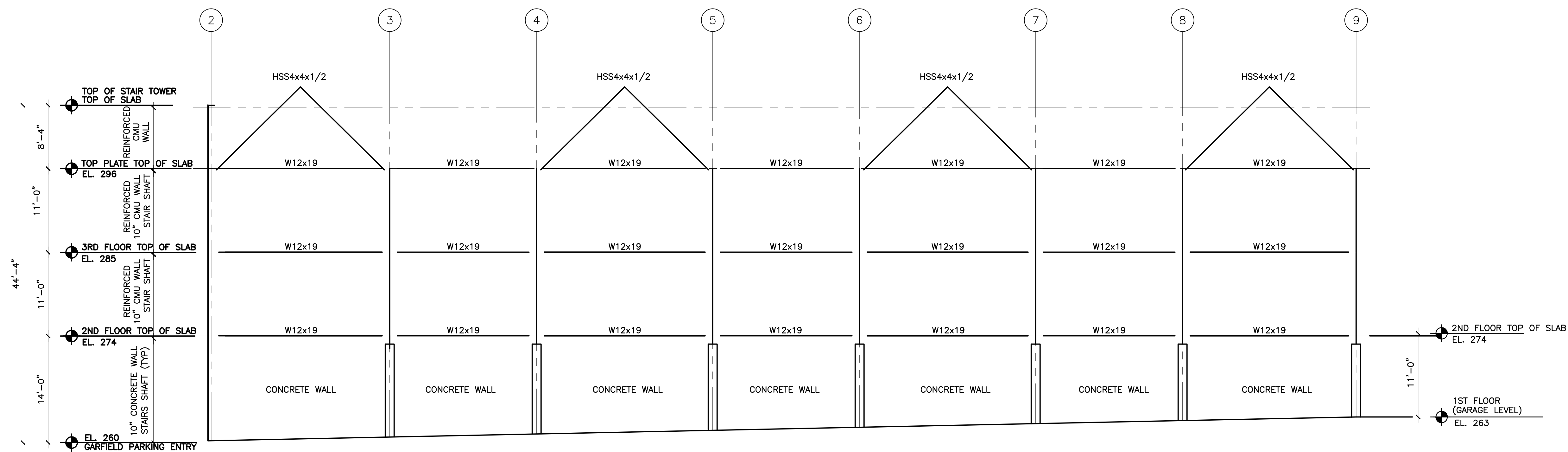


ELEVATIONS FRAMES C & D
SCALE: 1/8"=1'0"

ELEVATIONS FRAMES C & D
SCALE: 1/8"=1'0"



FRAME B
NTS



FRAME A
NTS

ELEVATIONS FRAMES A & B
SCALE: 1/8"=1'0"

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

dimovskiarhitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarhitecture.com

STRUCTURAL ENGINEER

CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE:	APRIL 26, 2021
PROJECT NO:	1941
DRAWN BY:	MU
CHECKED BY:	MR
SCALE:	AS NOTED

DRAWING TITLE
STRUCTURAL ELEVATIONS FRAMES A & B

SHEET NO. **S-010**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
 **dimovskiarhitecture**
 59 Kensico Road, Thornwood, NY 10594
 (914) 747-3500 | (914) 747-3588 fax
 www.dimovskiarhitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
 CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 223, HARTTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE No. 072797-1

MEP ENGINEER

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

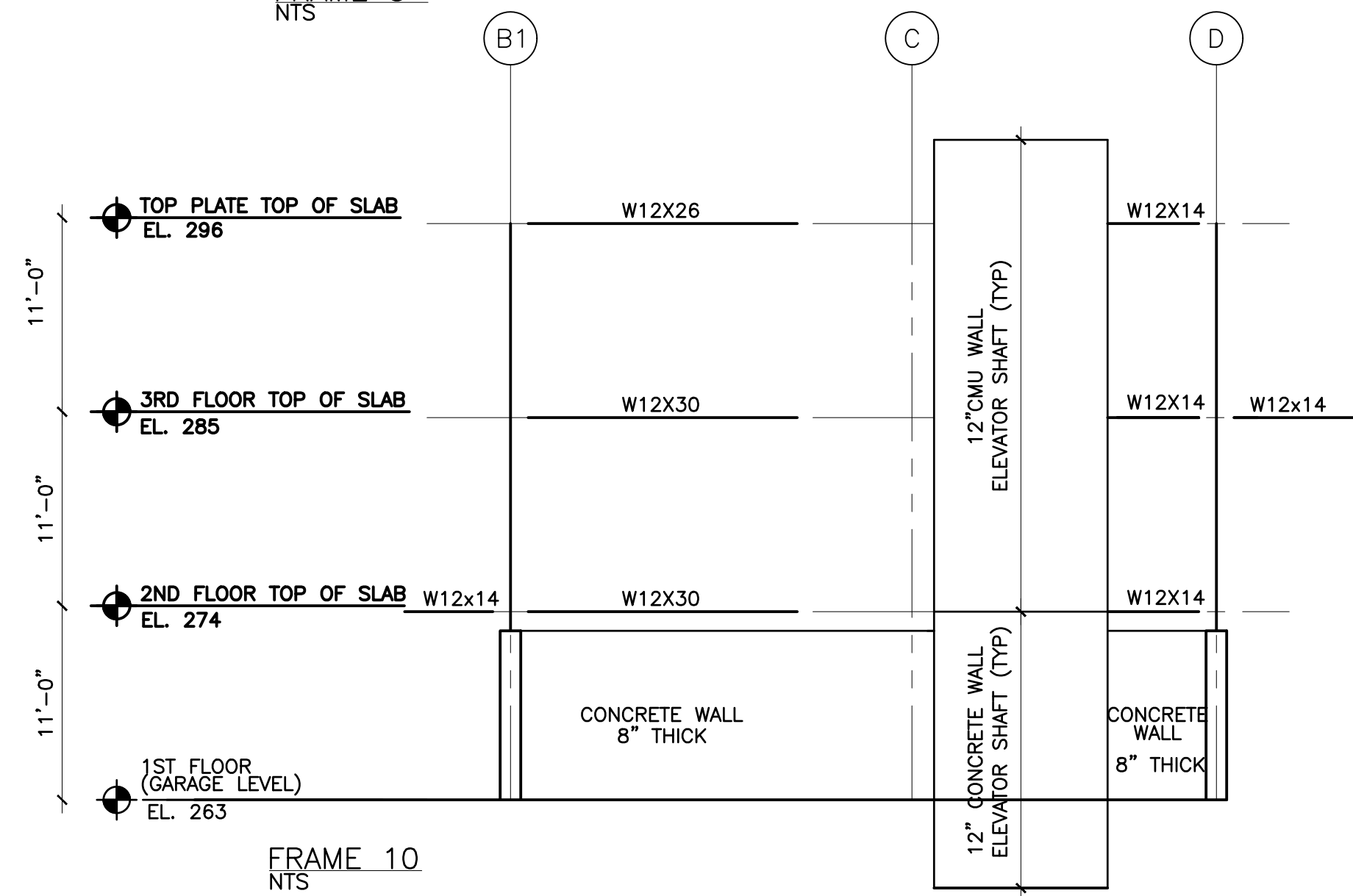
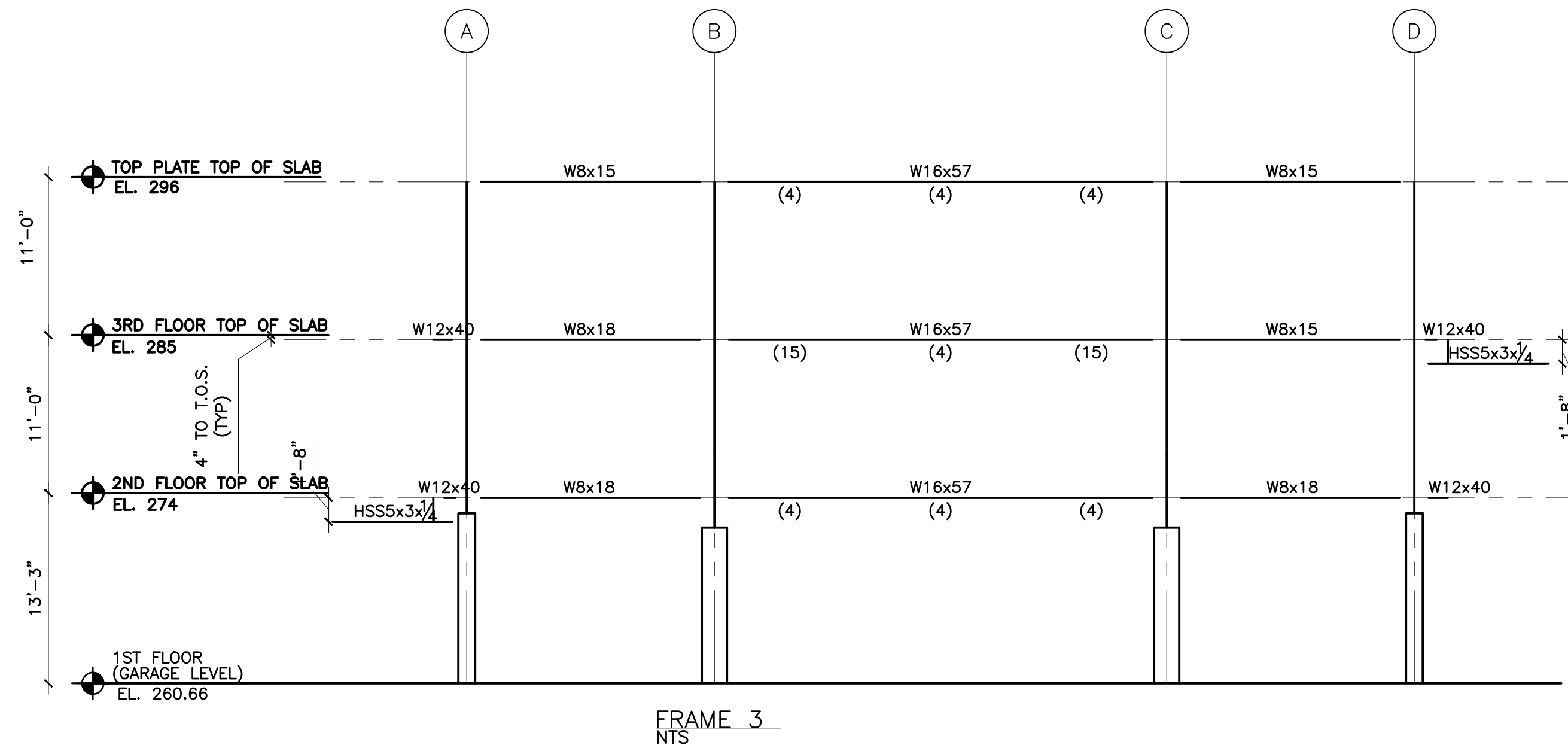
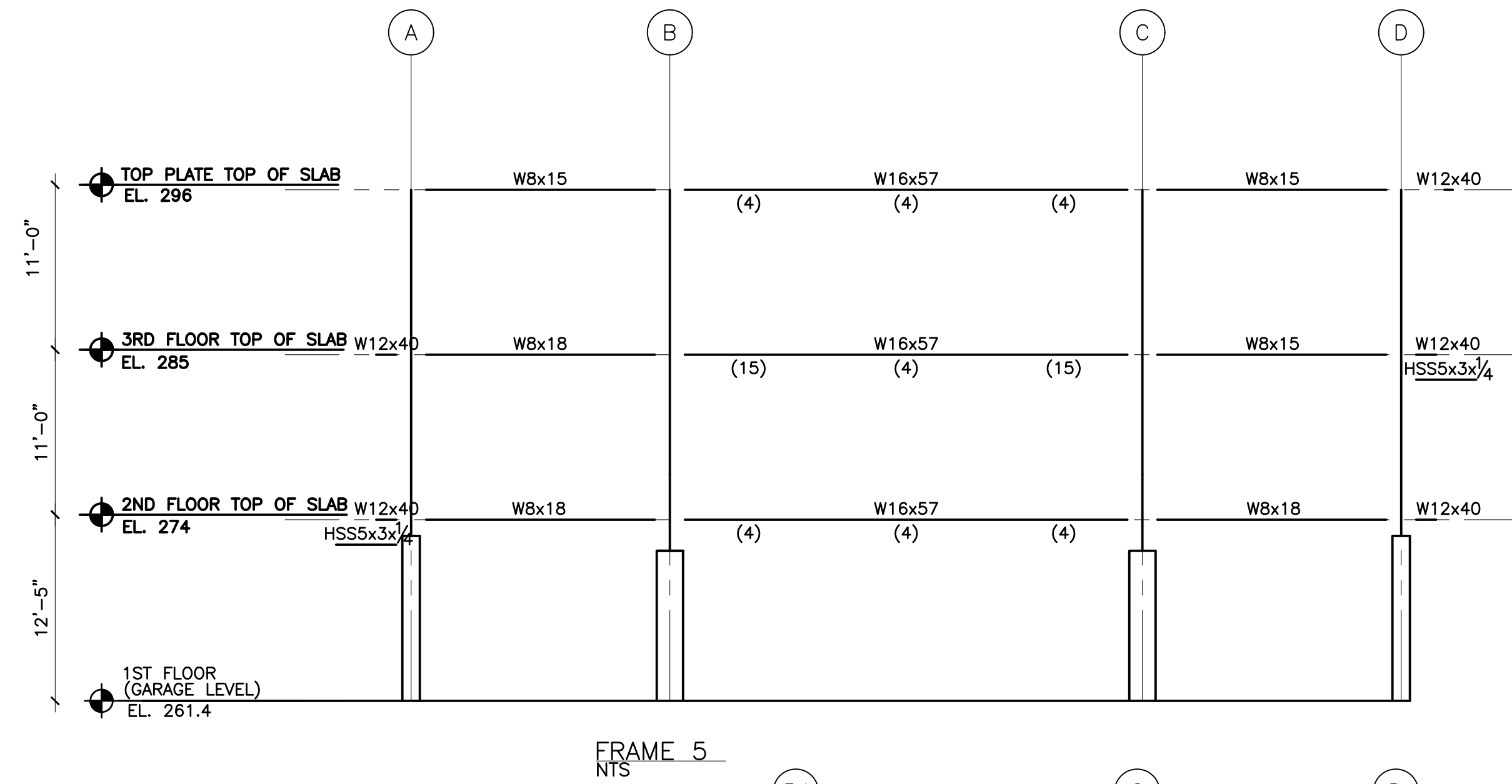
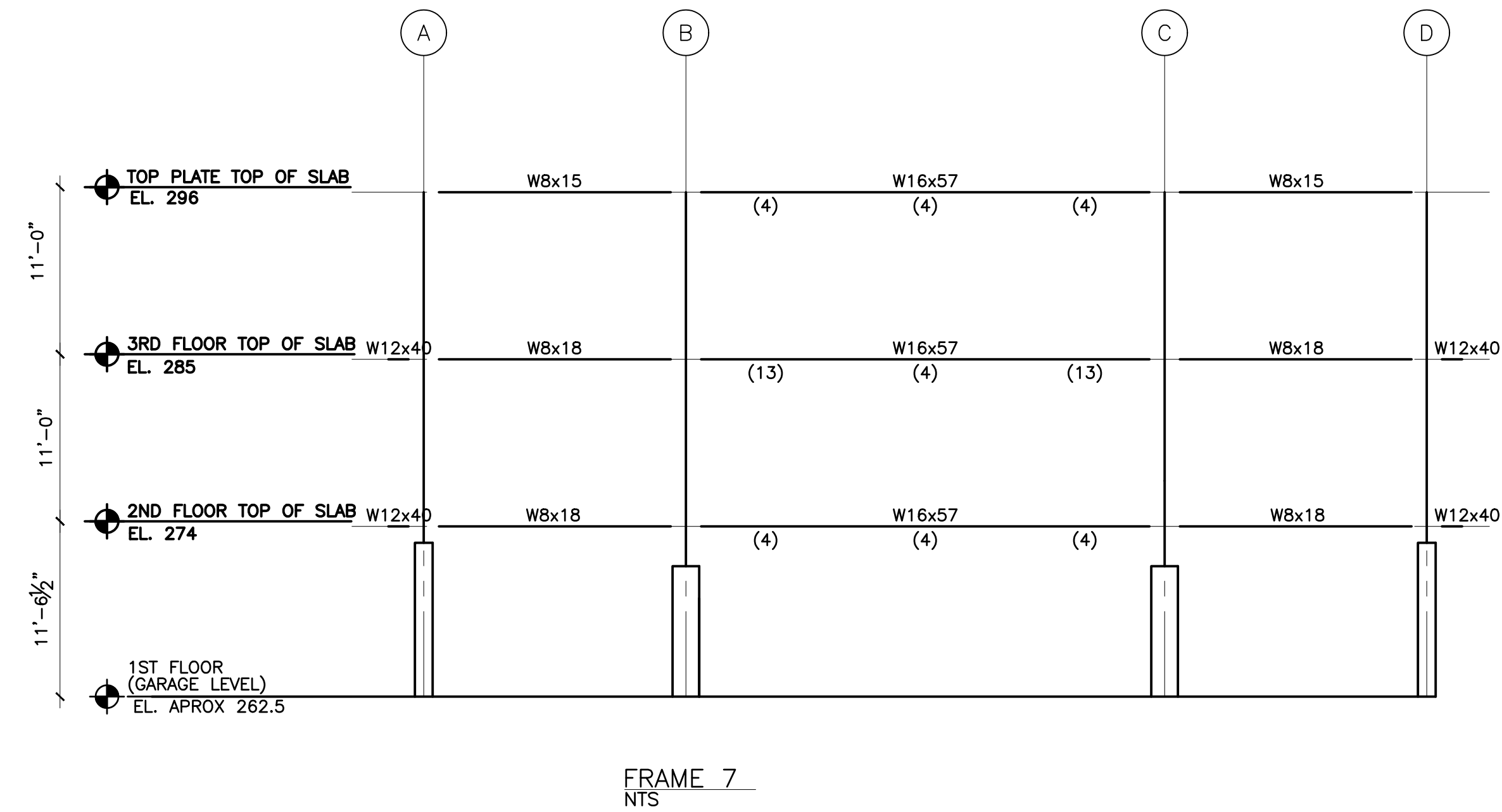
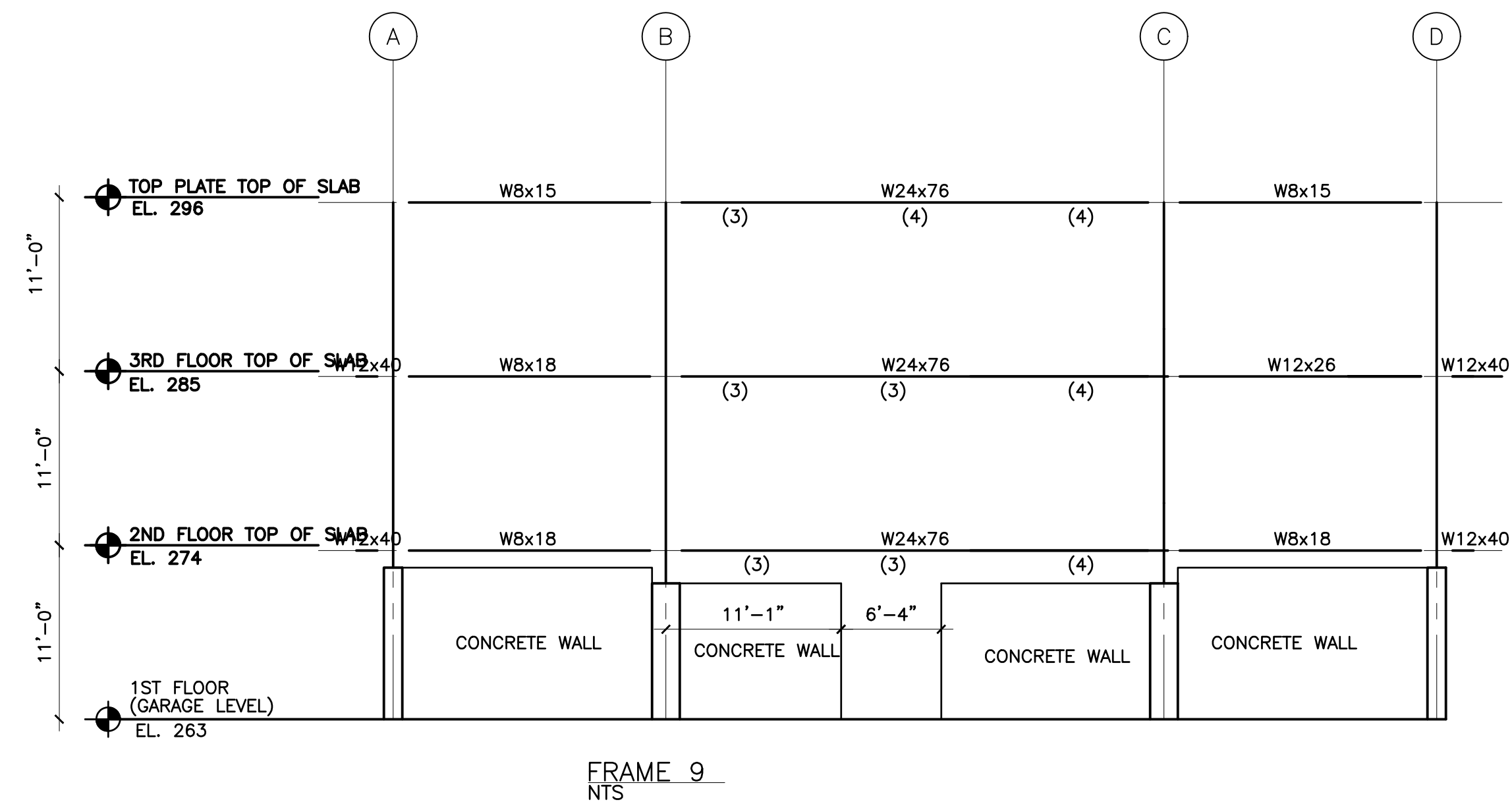
SEAL

PROJECT
LIBERTY PLAZA SUITES
 500 COMMERCE ST.
 TOWN OF MT. PLEASANT, NY

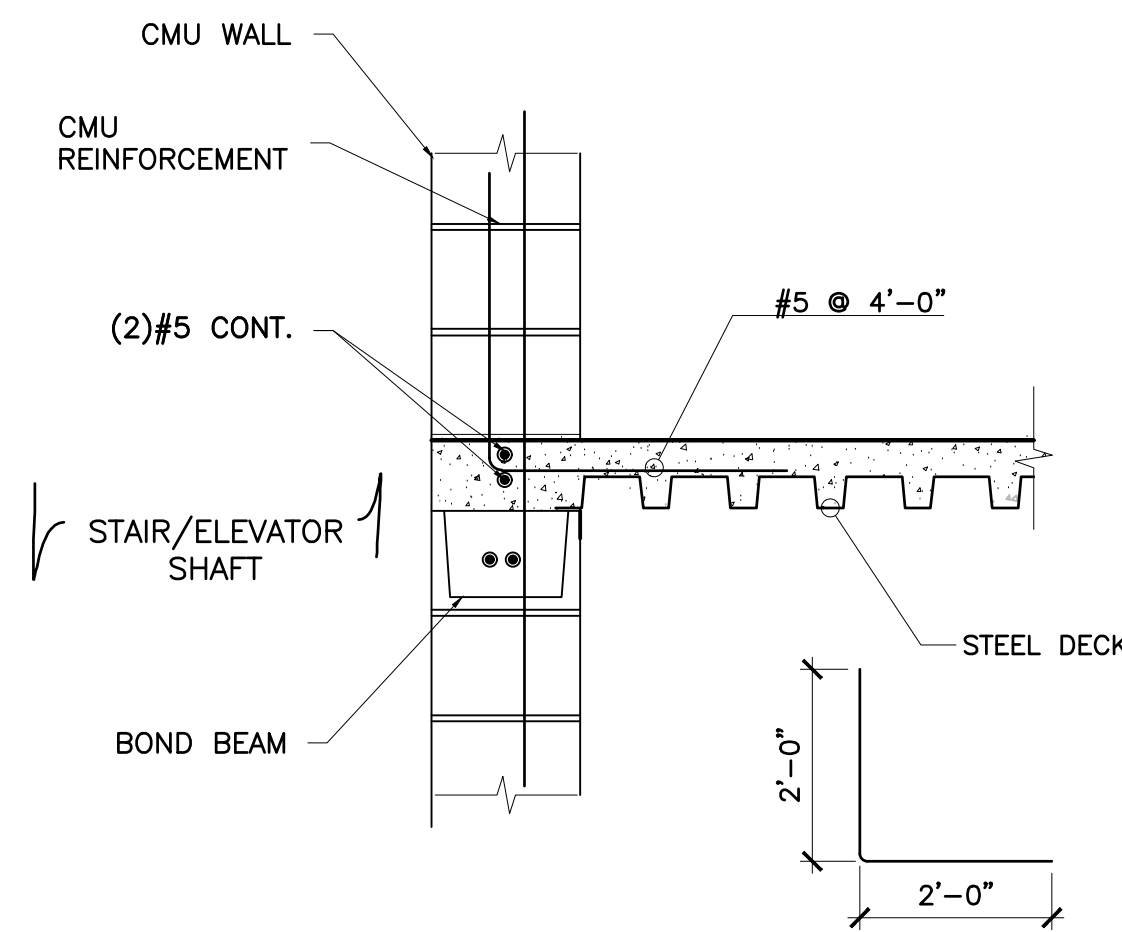
DATE: APRIL 26, 2021
 PROJECT NO: 1941
 DRAWN BY: MU
 CHECKED BY: MR
 SCALE: AS NOTED

DRAWING TITLE
STRUCTURAL ELEVATIONS FRAMES 3,5,7,9 & 10

SHEET NO. **S-011**

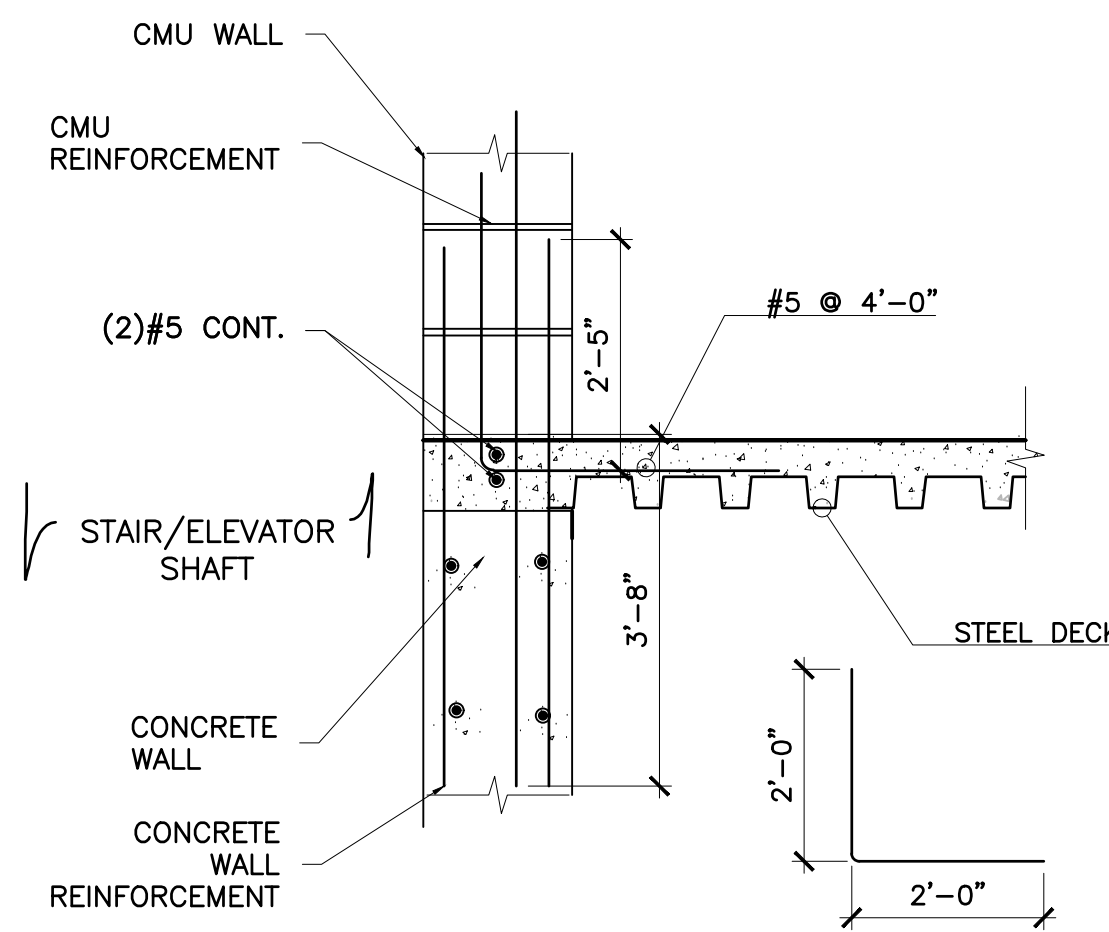


ELEVATIONS FRAMES 3,5,7,9 & 10
 SCALE: 1/8"=1'0"



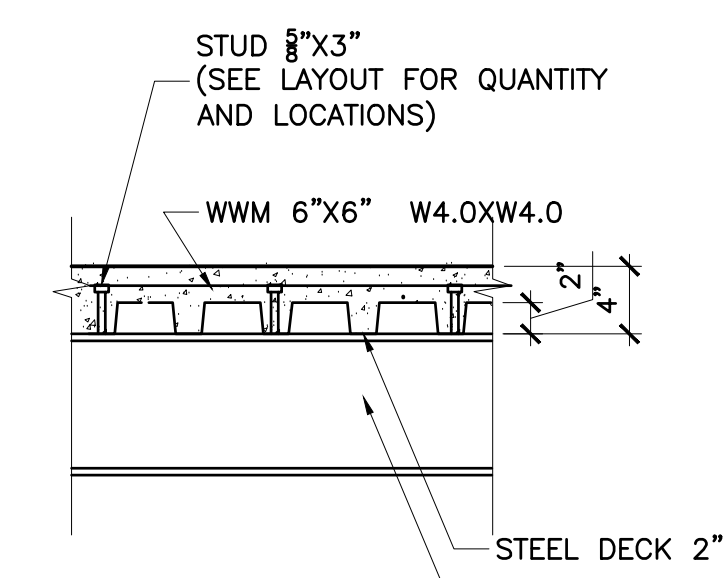
TYPICAL CMU CONNECTION DETAIL
N.T.S.

- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION.
2. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
3. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS

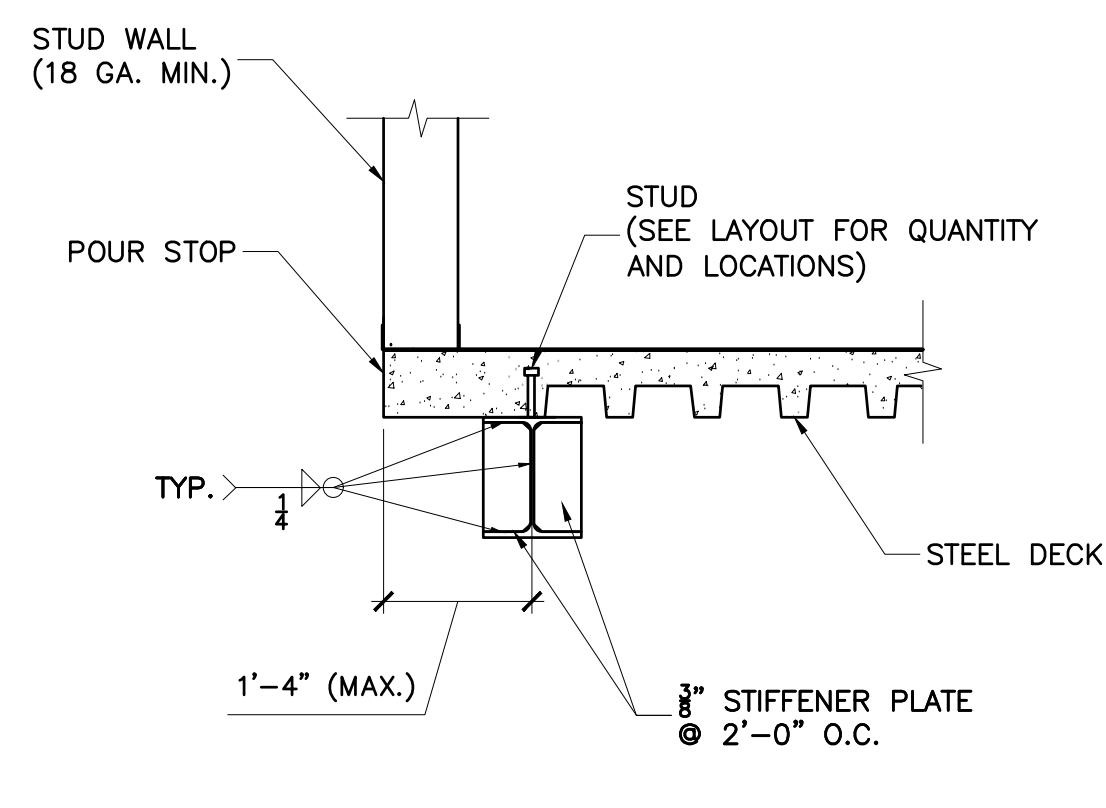


TYPICAL CMU CONNECTION DETAIL
N.T.S.

- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION.
2. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
3. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS

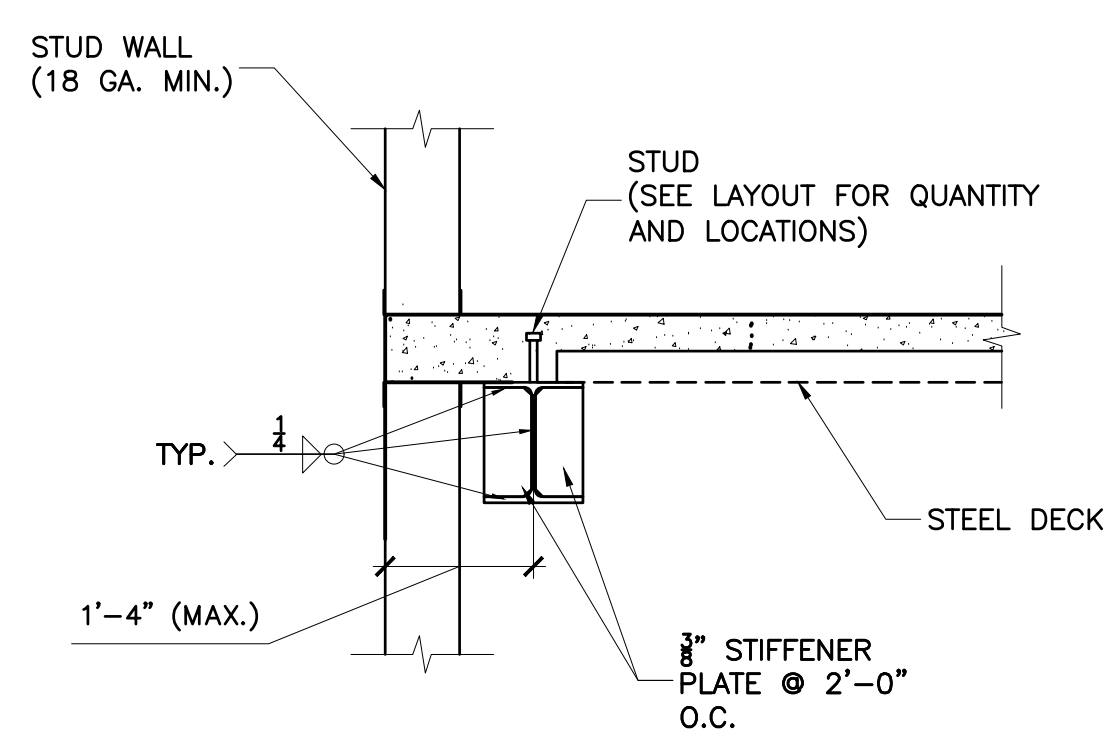


TYPICAL METAL DECK SECTION
N.T.S.



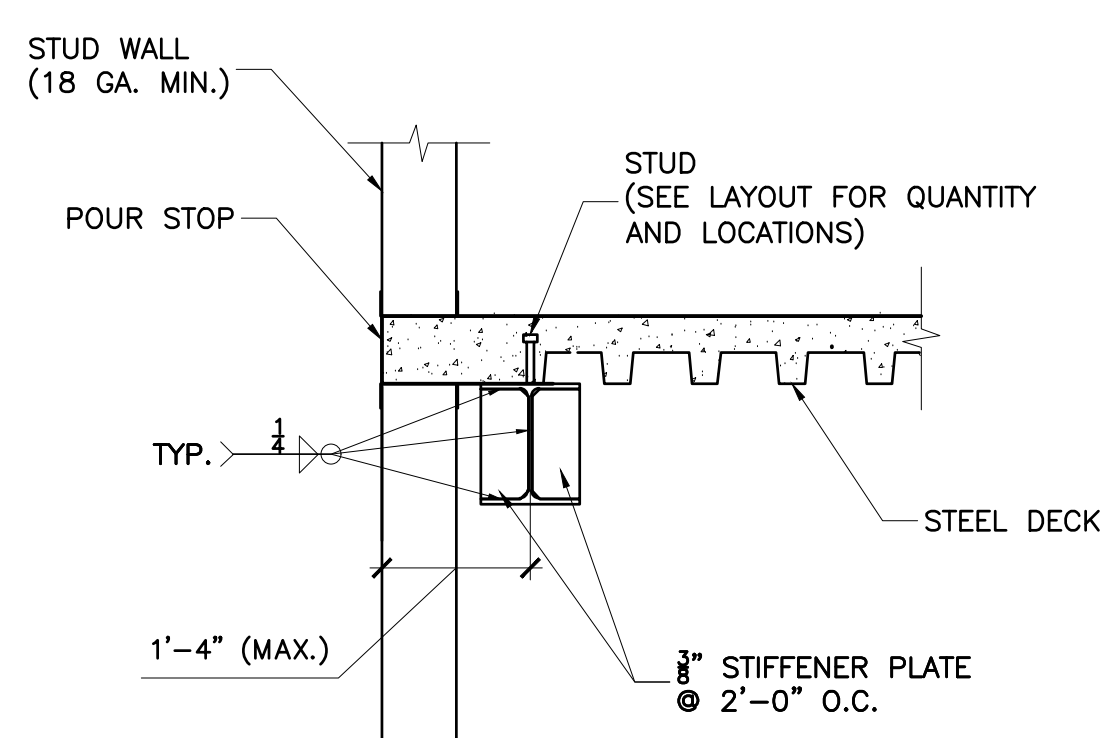
TYPICAL STUD WALL CONNECTION DETAIL
N.T.S.

- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
2. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS



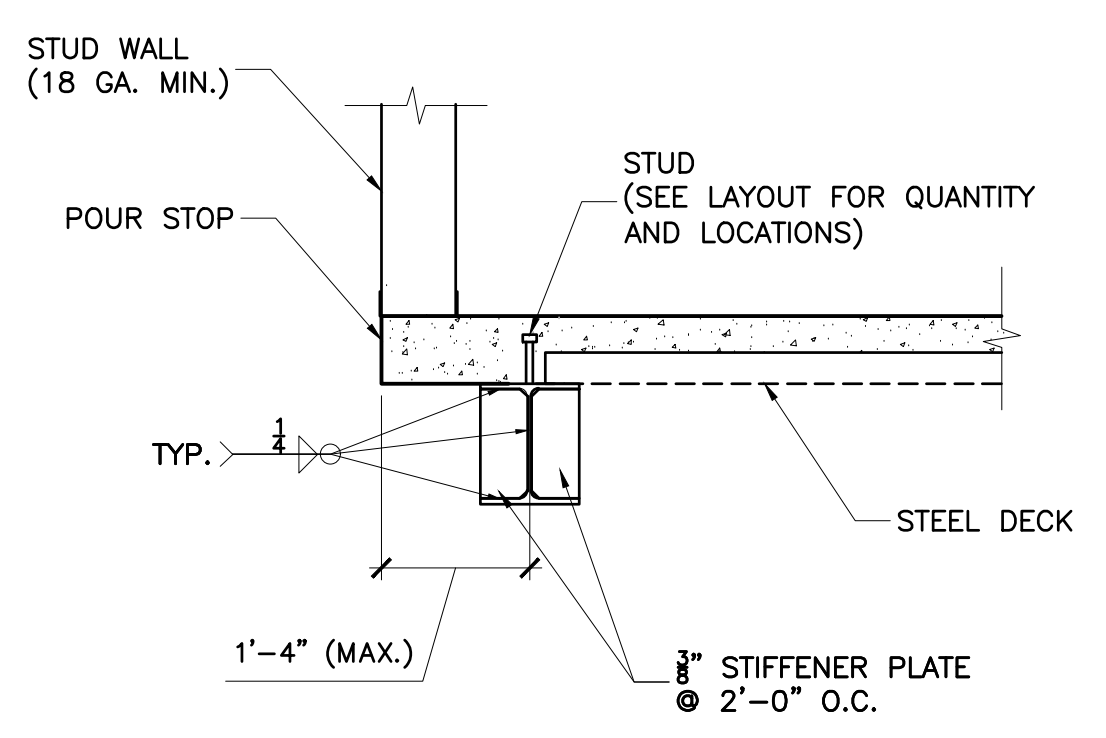
TYPICAL STUD WALL CONNECTION DETAIL
N.T.S.

- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION.
2. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
3. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS



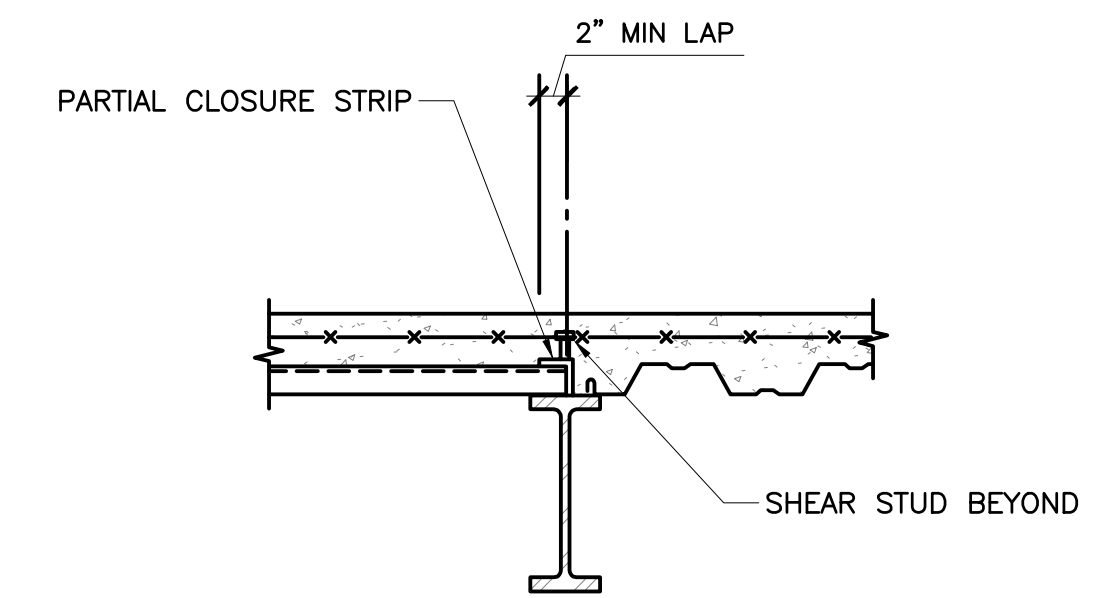
TYPICAL STUD WALL CONNECTION DETAIL
N.T.S.

- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
2. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS

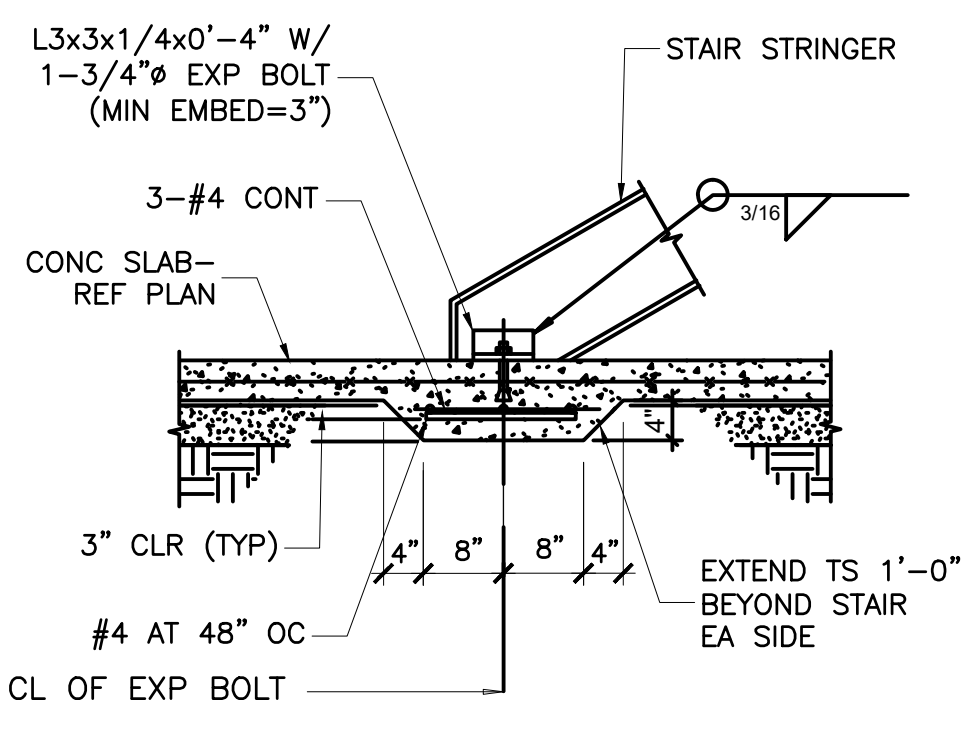


TYPICAL STUD WALL CONNECTION DETAIL
N.T.S.

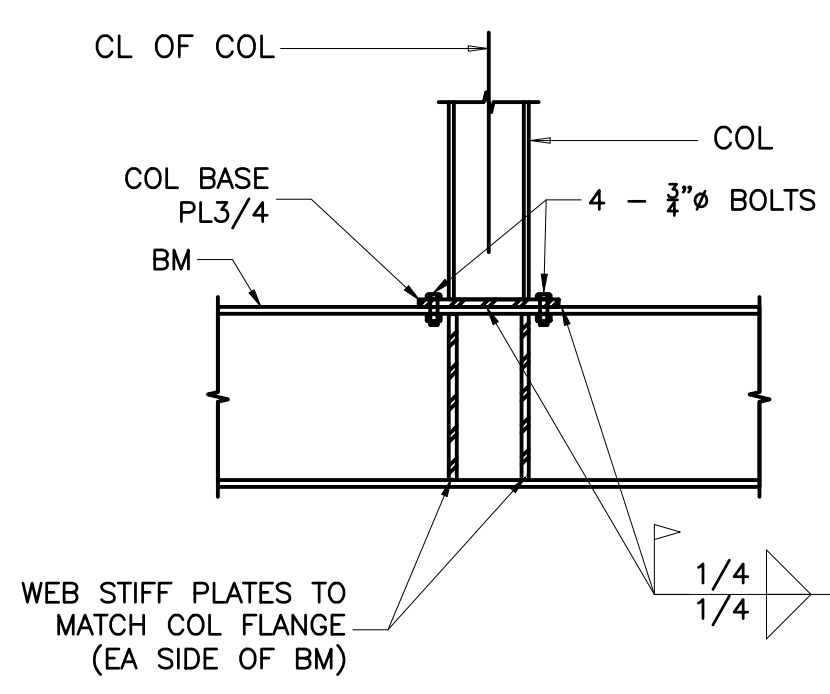
- NOTES:
1. SEE FLOOR PLANS FOR DECK SIZE, ELEVATION AND DIRECTION. SEE DECK SHOP DRAWINGS FOR ALL DECK REINFORCEMENT.
2. SEE SHOP DRAWINGS FOR ALL POUR STOP DETAILS



CHANGE IN DECK DIRECTION

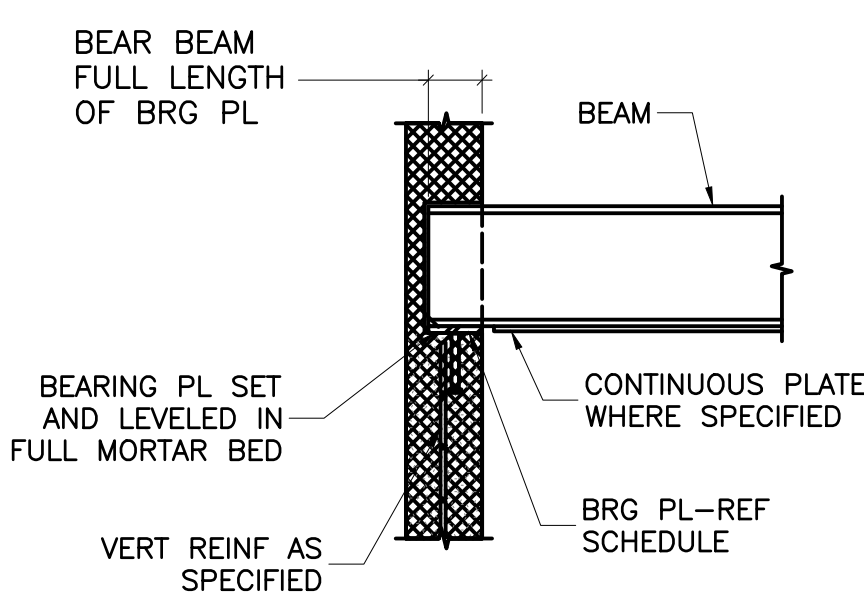


TYPICAL THICKENED SLAB / KEYED CONSTRUCTION JOINT DETAIL
N.T.S.



TYPICAL TRANSFER BEAM DETAILS
N.T.S.

NOTE:
CONC SLAB NOT SHOWN FOR CLARITY.



TYPICAL BEAM BEARING ON MASONRY DETAILS
N.T.S.

BEAM BEARING PLATE SCHEDULE		
BEAM	BEARING PL	HEADED STUDS
W8, W12	PL3/4x7x7	2- 3/4"Ø x5" AT 5" OC
W14, W16	PL3/4x7x10	2- 3/4"Ø x5" AT 8" OC

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER
OLA Consulting Engineers
80 Broadway, Hawthorne, NY 10532
914.747.2800
8 West 38th Street, Suite 501, New York, NY 10018
946.849.4110
olacoe.com

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: LC
CHECKED BY: MR
SCALE: AS NOTED

DRAWING TITLE
STRUCTURAL DETAILS

SHEET NO. S-013

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

 59 Kensico Road, Thornwood, NY 10594
 (914) 747-3500 | (914) 747-3588 fax
 www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
 CONSULTING ENGINEERS
 A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE No. 072797-1

MEP ENGINEER

 OLA Consulting Engineers
 50 Broadway, Hawthorne, NY 10532
 914.747.2800
 8 West 35th Street, Suite 501, New York, NY 10018
 646.640.4110
 ola.com

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

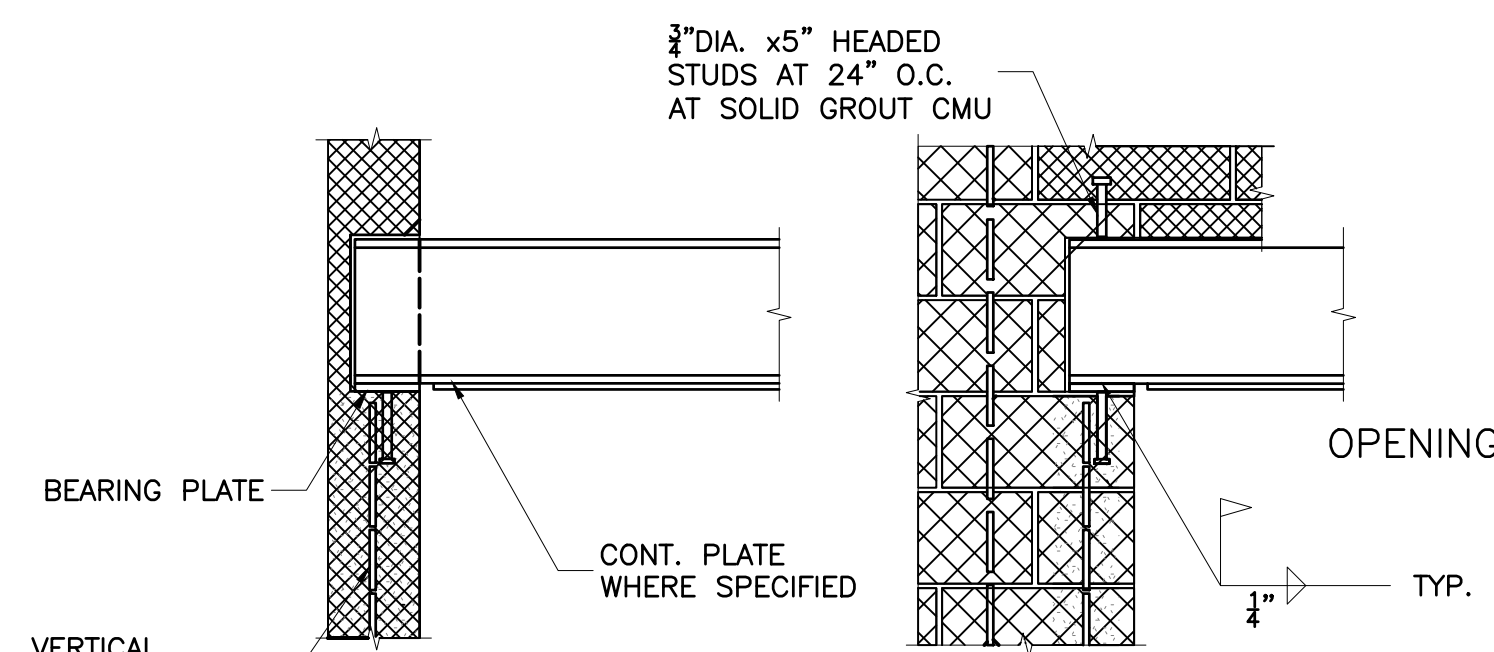
PROJECT
LIBERTY PLAZA SUITES
 500 COMMERCE ST.
 TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
 PROJECT NO.: 1941
 DRAWN BY: LC
 CHECKED BY: MR
 SCALE: AS NOTED

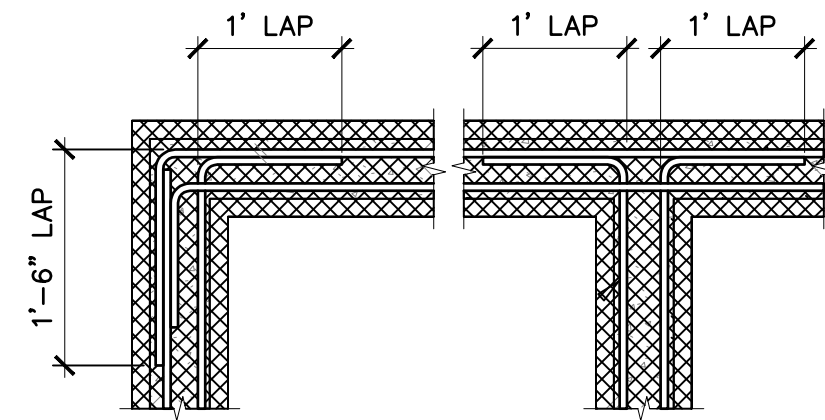
DRAWING TITLE
STRUCTURAL DETAILS

SHEET NO. S-014

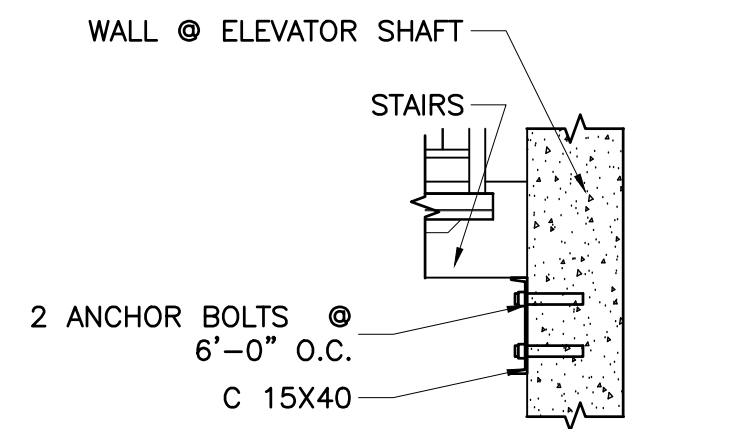
BEAM BEARING PLATE SCHEDULE		
BEAM	BEARING PLATE	HEADED STUDS
W8, W12	PL 3"x7"x7"	(2) 3/4"DIA.x5" @5" O.C
W14, W16	PL 3"x7"x10"	(2) 3/4"DIA.x5" @8" O.C



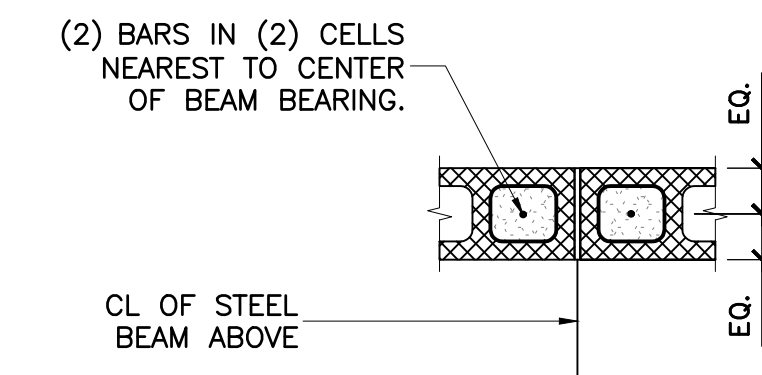
PERPENDICULAR TO WALL
 PARALLEL TO WALL
TYPICAL BEAM BEARING ON MASONRY DETAILS
 N.T.S.



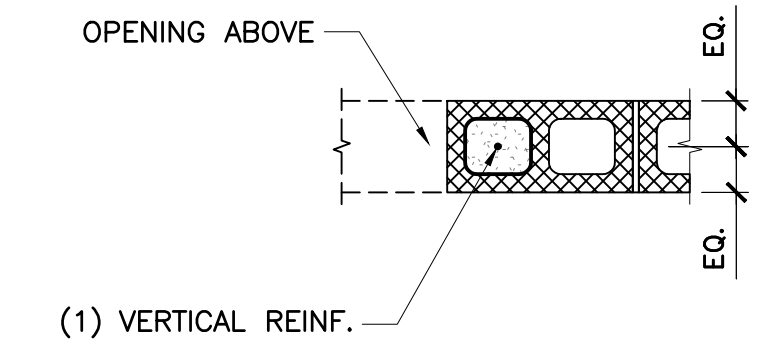
CONCRETE WALL CORNER AND INTERSECTION



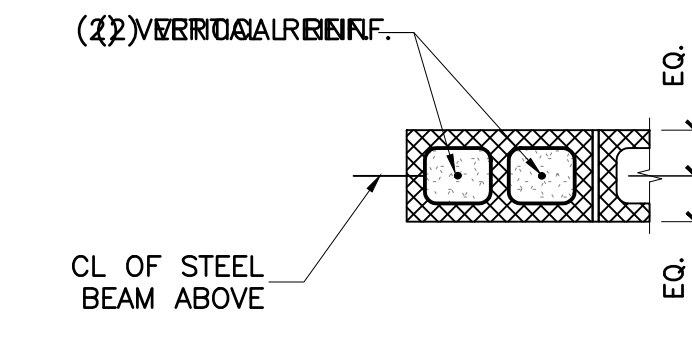
TYPICAL BEARING BEAM FOR STAIRS
 N.T.S.



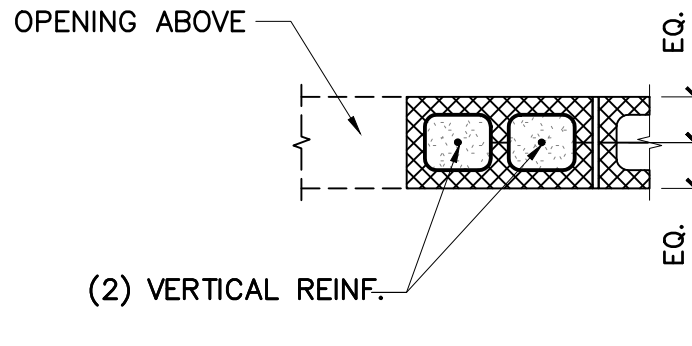
BEAM BEARING PERPENDICULAR
 N.T.S.



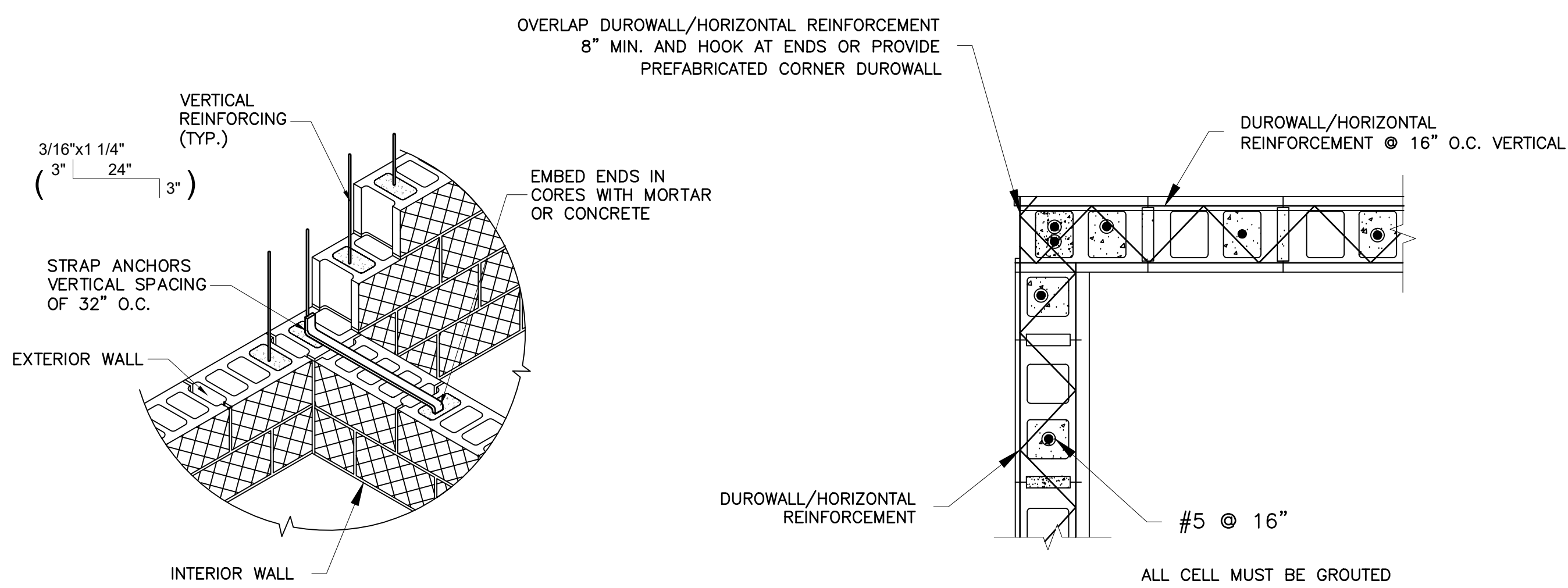
OPENING < 48"
 N.T.S.



BEAM BEARING AT END
 N.T.S.



OPENING > 48"
 N.T.S.



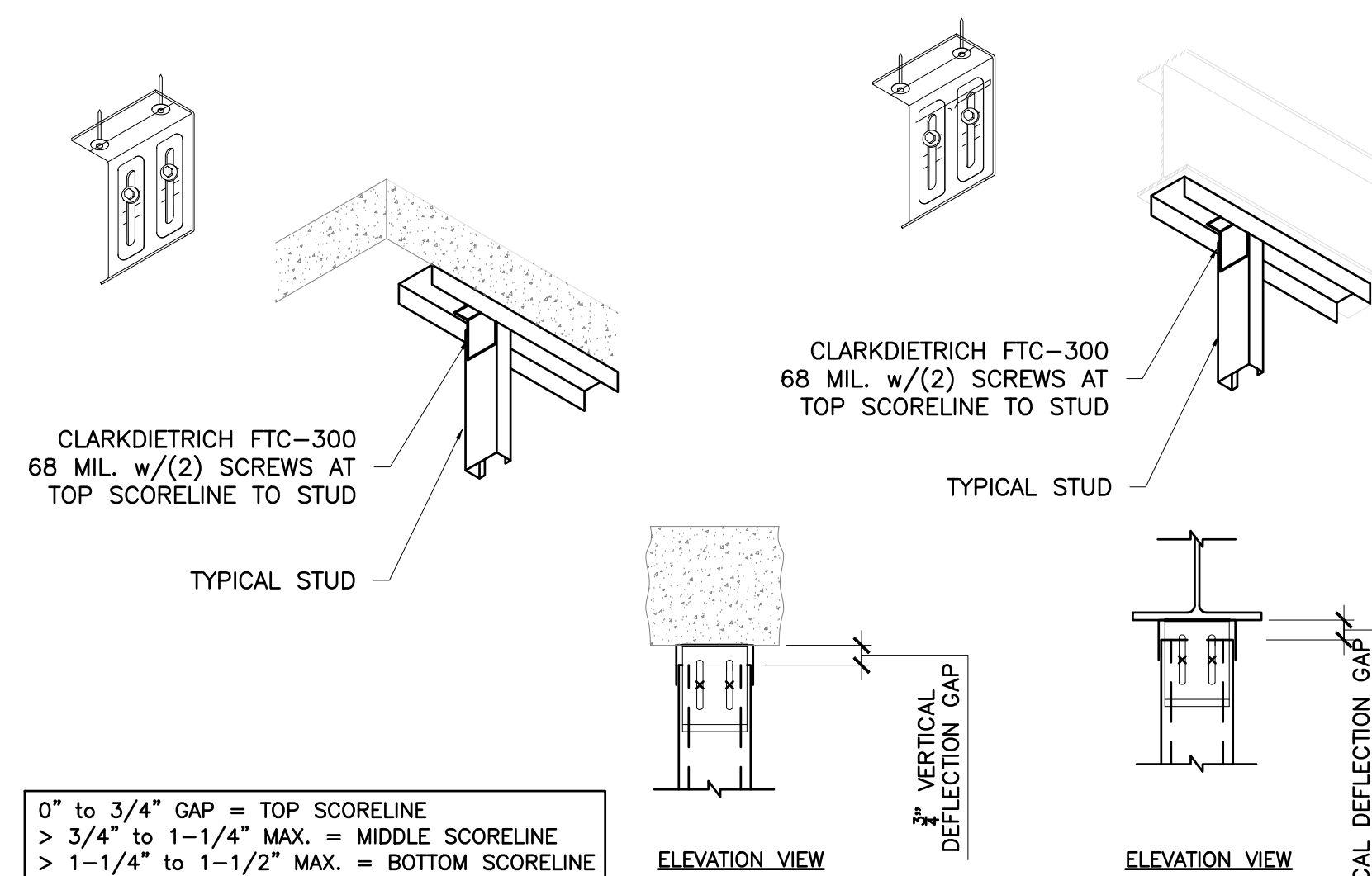
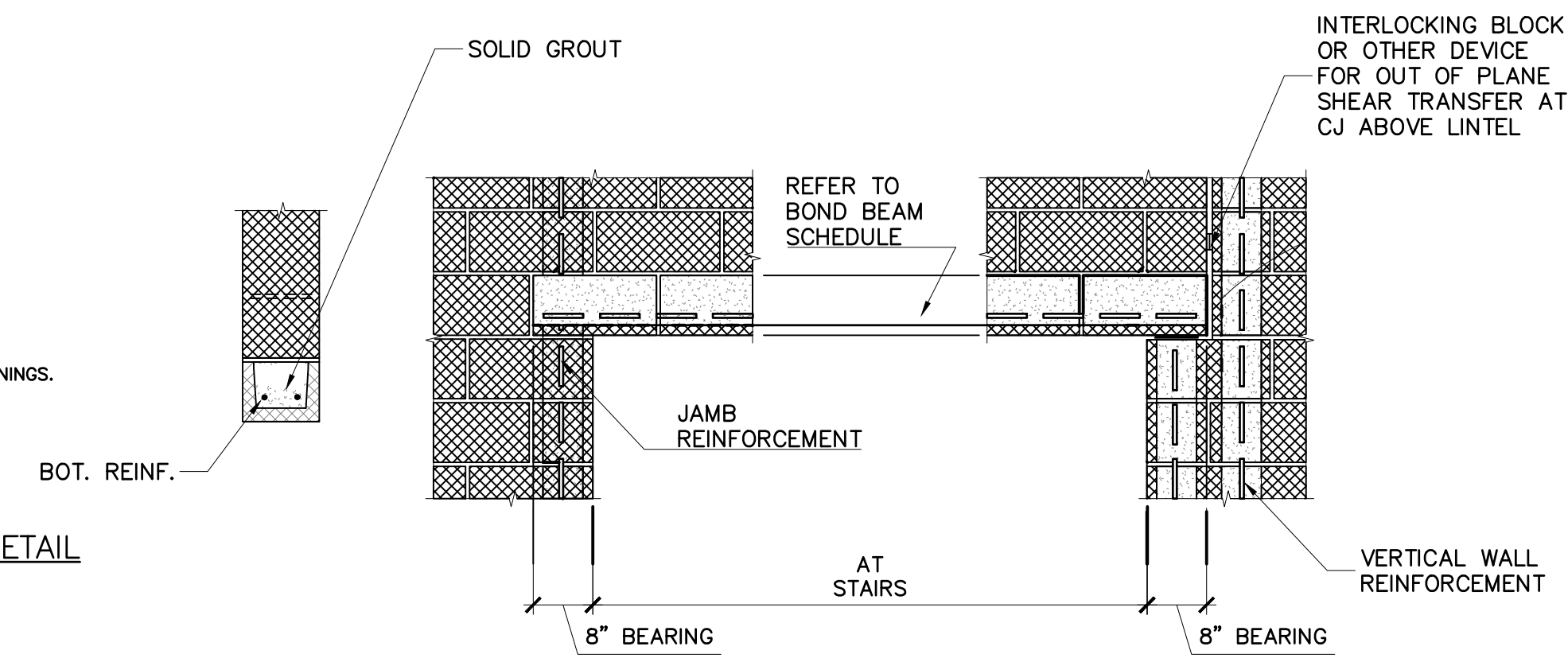
TYPICAL DETAIL AT INTERSECTION OF EXTERIOR AND INTERIOR CMU WALLS
 N.T.S.

TYPICAL STRUCTURAL WALL CORNER DETAIL
 N.T.S.

BOND BEAM LINTEL SCHEDULE			
SPAN	DEPTH "D"	REINFORCING	
		10"WIDE	12"WIDE
0 TO 3'-4"	8"	(2)#4 BOTTOM	(2)#5 BOTTOM
3'-5" TO 5'-4"	8"	(2)#5 BOTTOM	(2)#5 BOTTOM

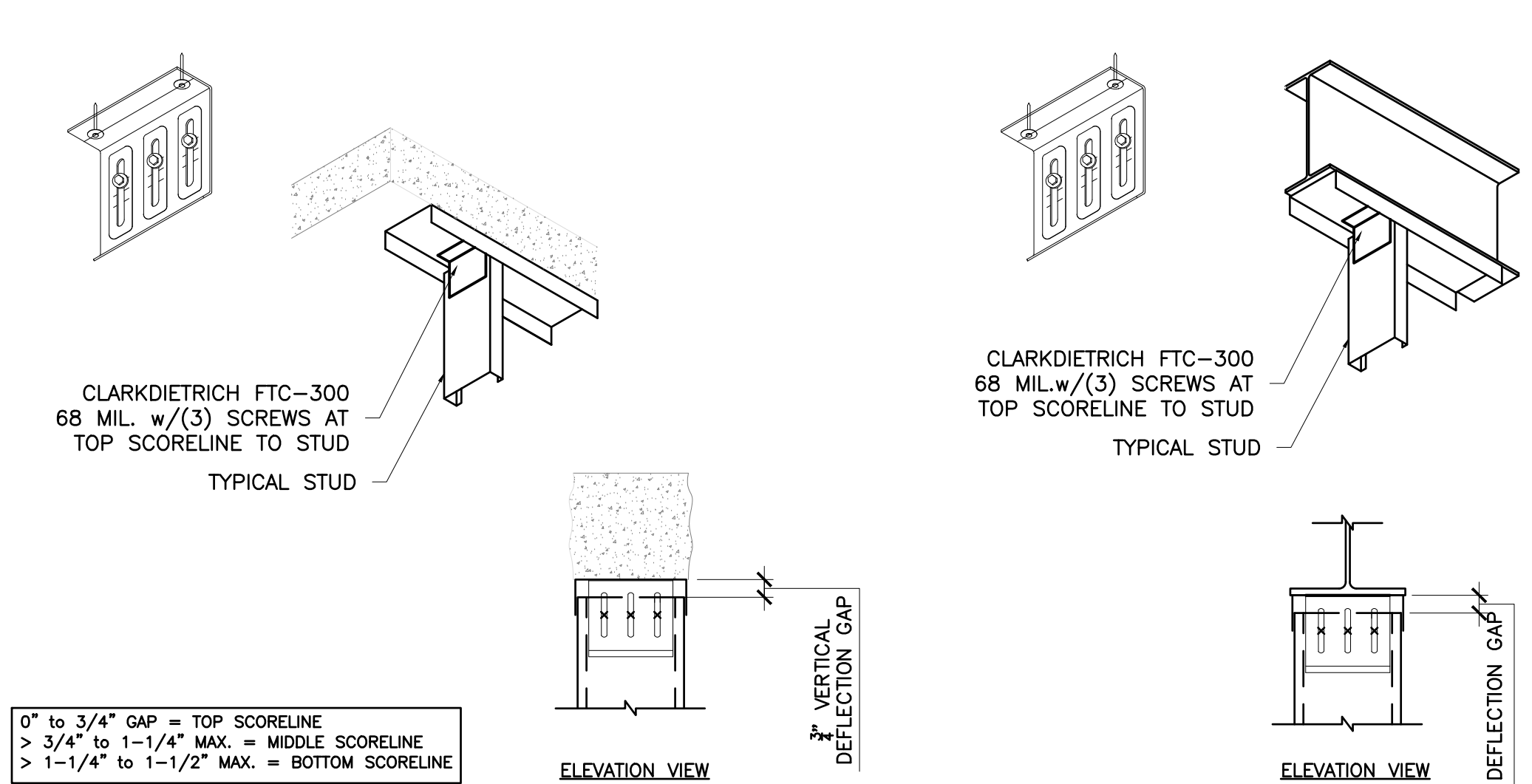
NOTES:
 1. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

BOND BEAM LINTEL DETAIL
 N.T.S.



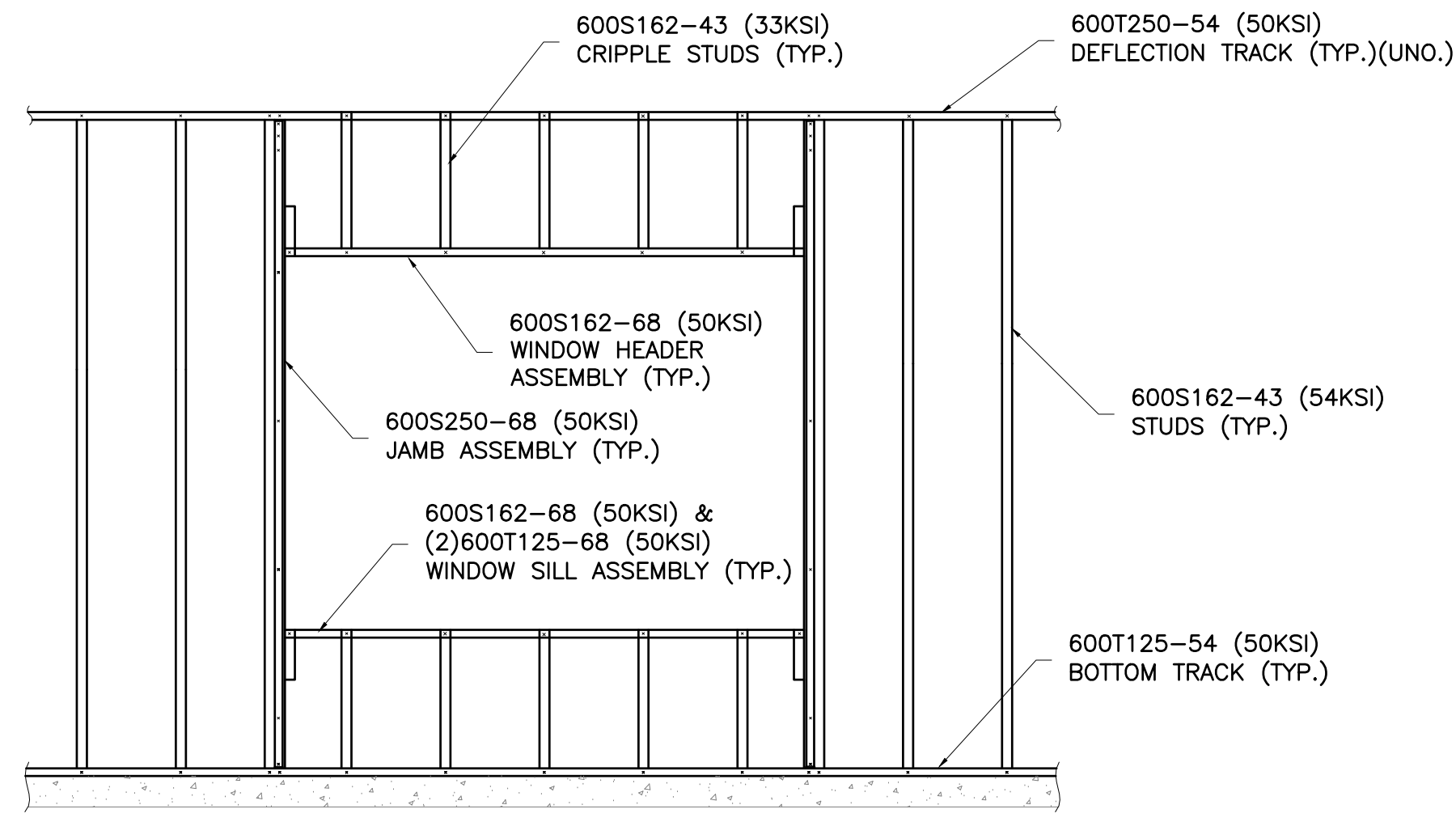
0" to 3/4" GAP = TOP SCORELINE
 > 3/4" to 1-1/4" MAX. = MIDDLE SCORELINE
 > 1-1/4" to 1-1/2" MAX. = BOTTOM SCORELINE

FAST TOP CLIP FTC-3 TO CONCRETE AND STEEL
 N.T.S.

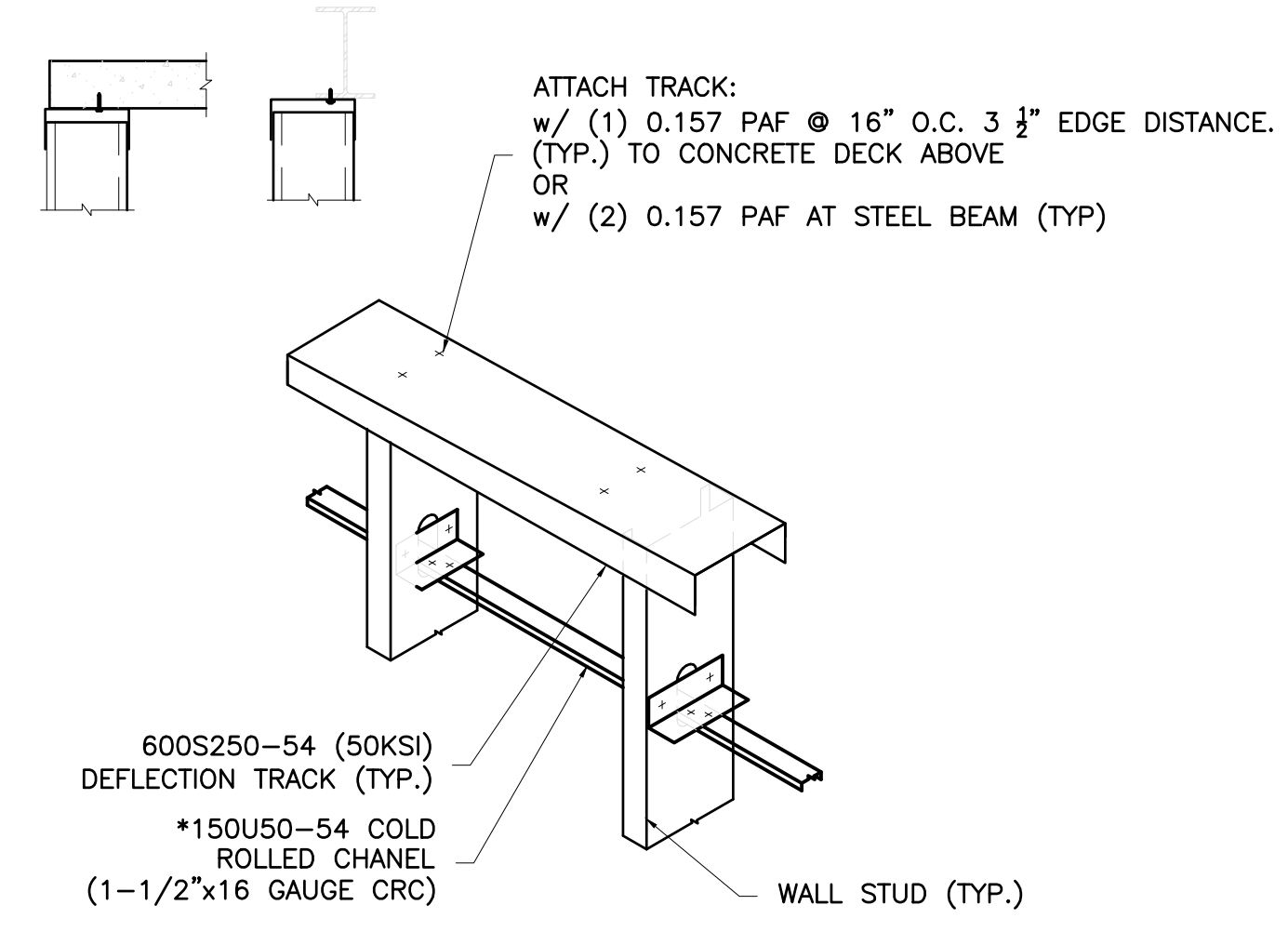


0" to 3/4" GAP = TOP SCORELINE
 > 3/4" to 1-1/4" MAX. = MIDDLE SCORELINE
 > 1-1/4" to 1-1/2" MAX. = BOTTOM SCORELINE

FAST TOP CLIP FTC-5 TO CONCRETE AND STEEL
 N.T.S.

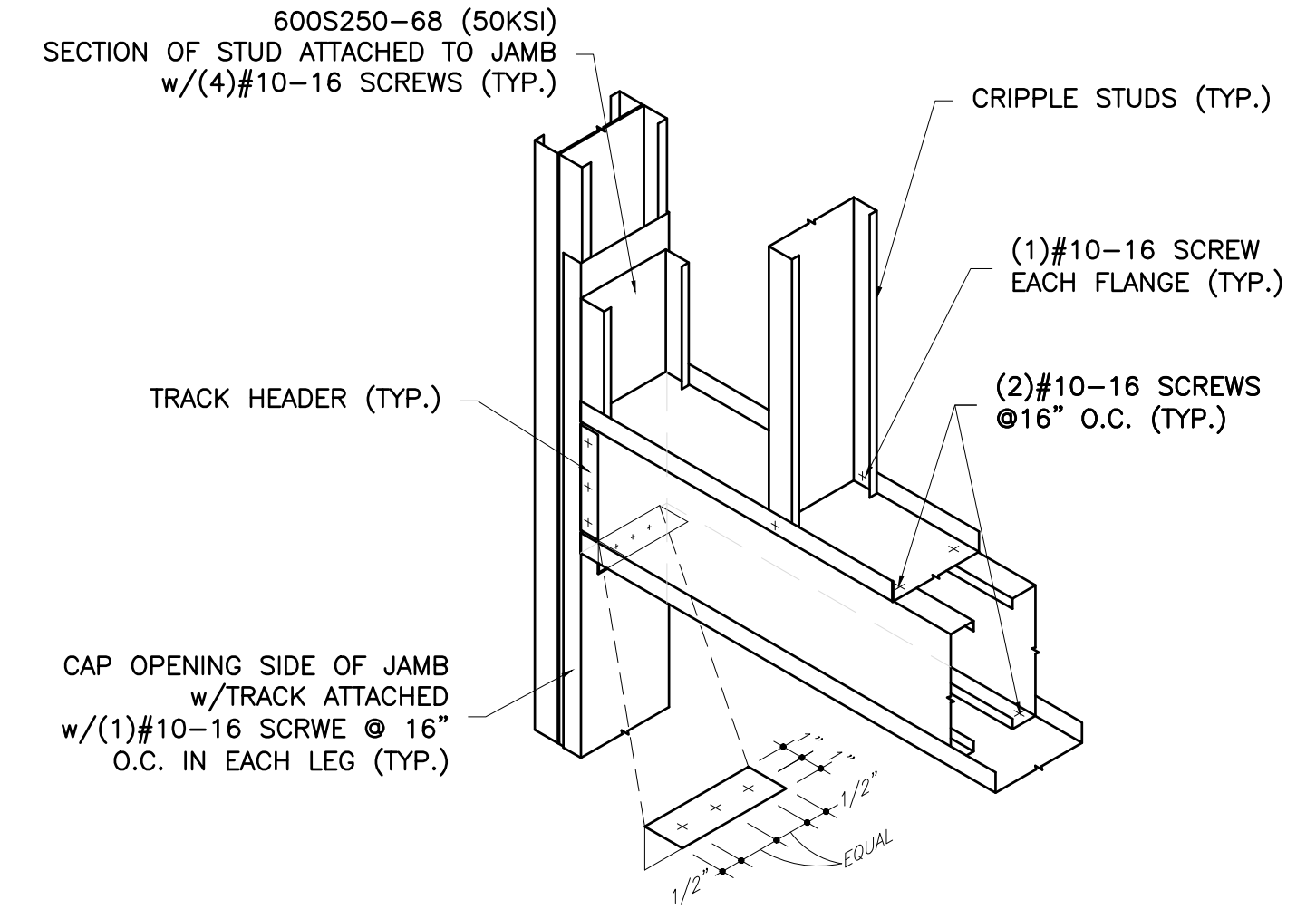


TYPICAL WINDOW FRAMING (U.N.O)
N.T.S.

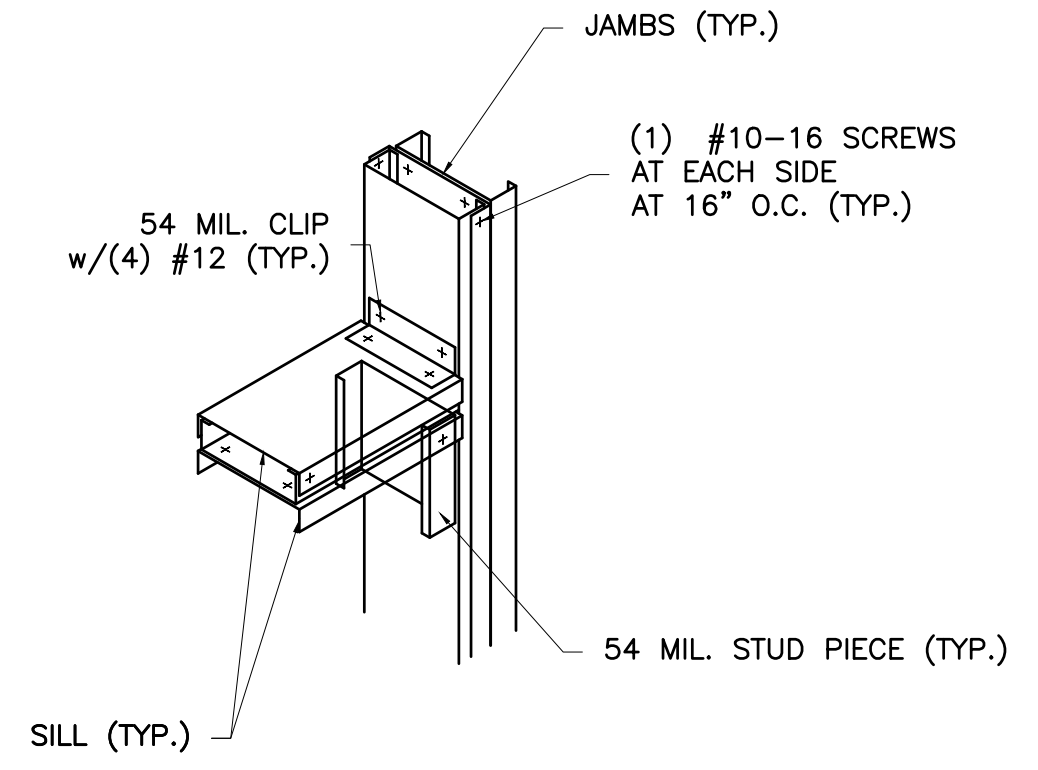


NOTE:
INSIDE DIMENSION OF OUTER TRACK TO BE 1/4" MORE THAN STUD DEPTH.
*CURTAIN WALL STUD TO HAVE BRACING WITHIN 12" OF SLIP TRACK

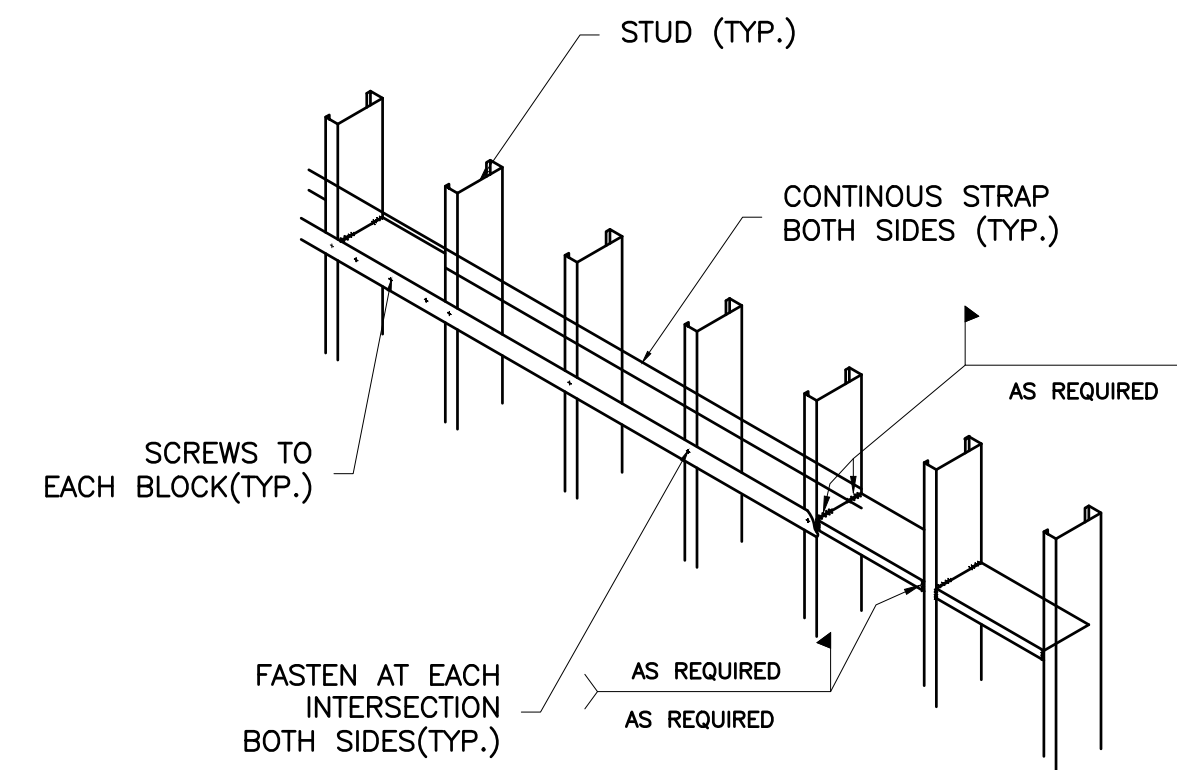
TYPICAL STUD BRACING AT DEFLECTION TRACK LOCATIONS
N.T.S.



TYPICAL WINDOW HEADER DETAILS
N.T.S.

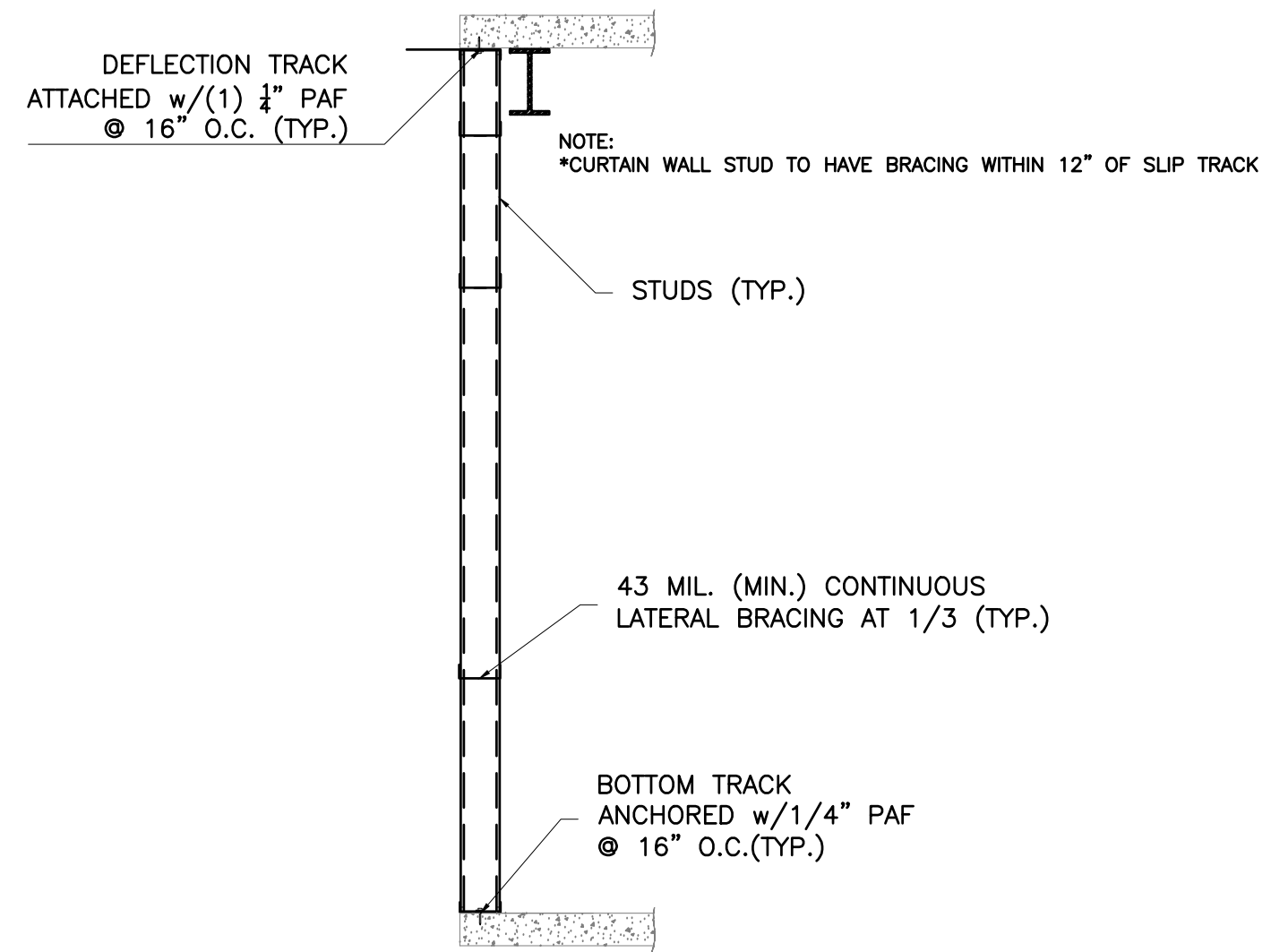


TYPICAL WINDOW SILL DETAILS
N.T.S.

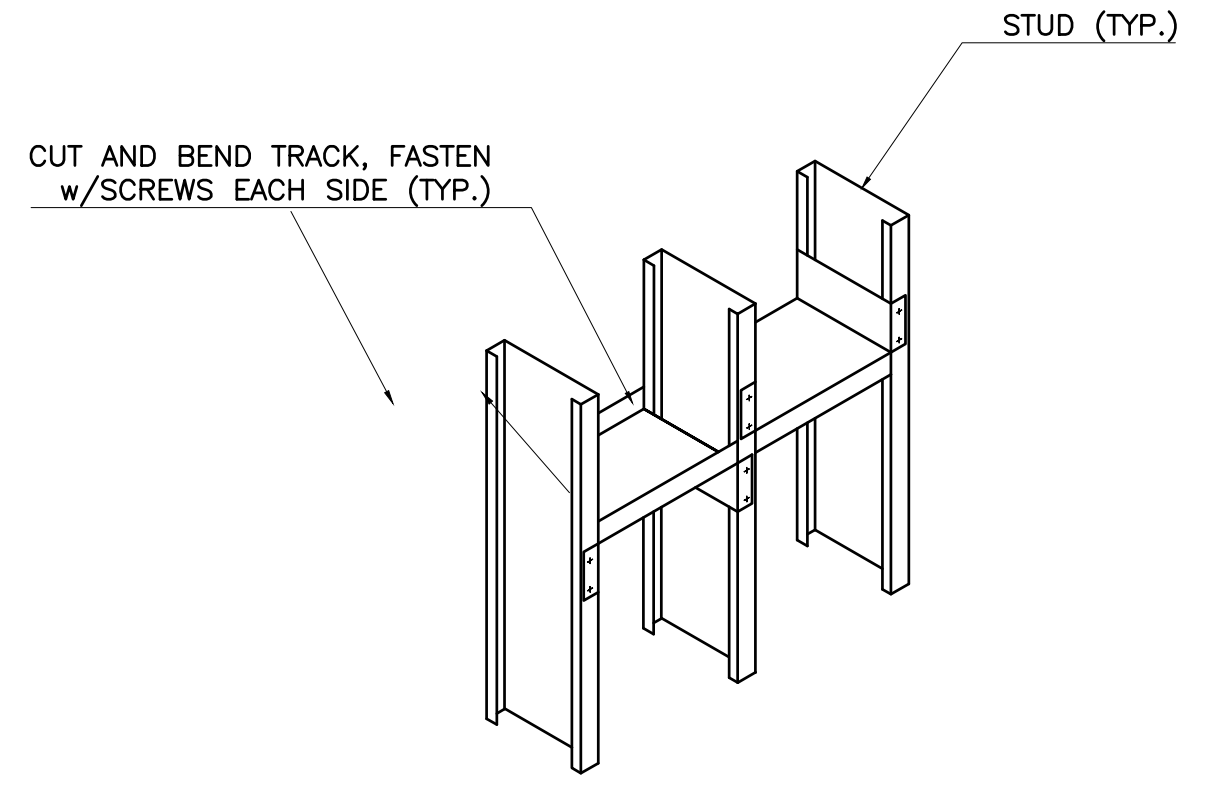


SOLID BLOCK & STRAP BRIDGING OPTION

TYPICAL EXTERIOR WALL BRACING
N.T.S.

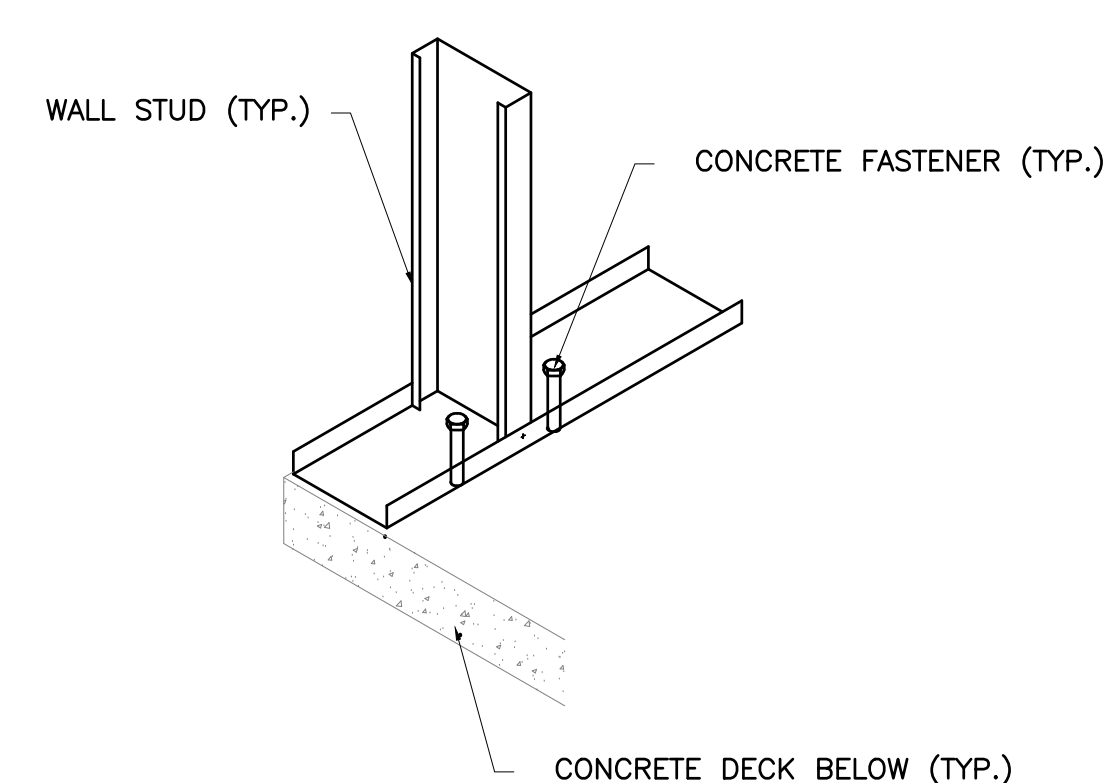


TYPICAL EXTERIOR NONLOAD BEARING WALL
N.T.S.

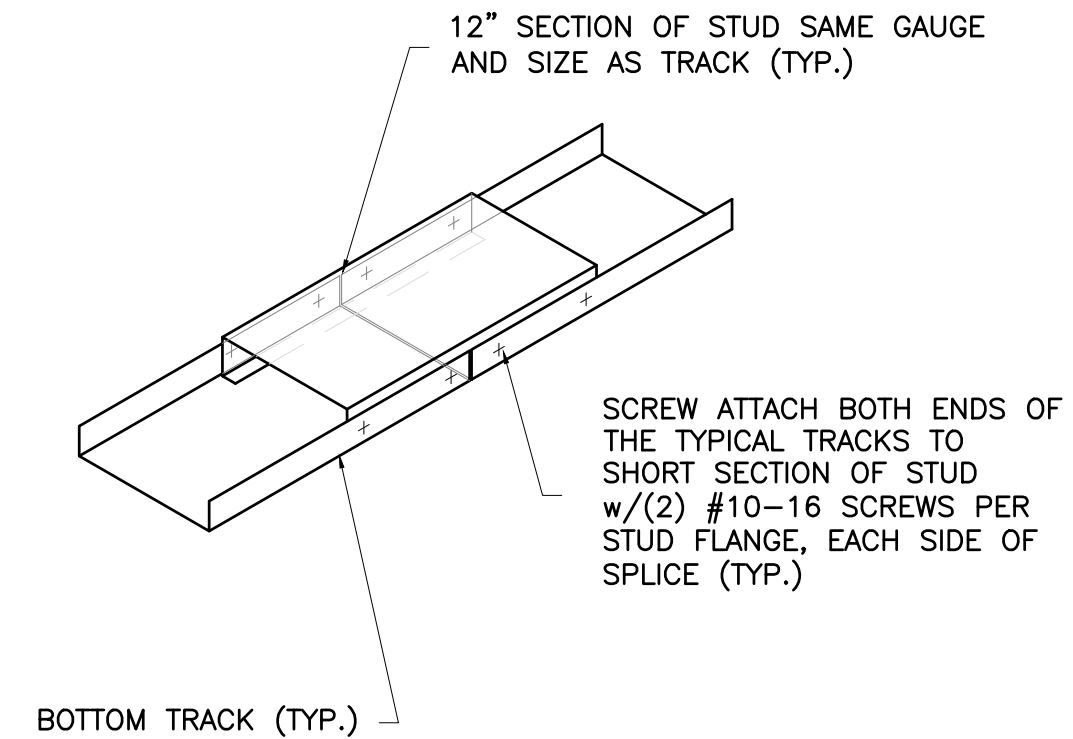


SOLID BLOCKING BRIDGING OPTION

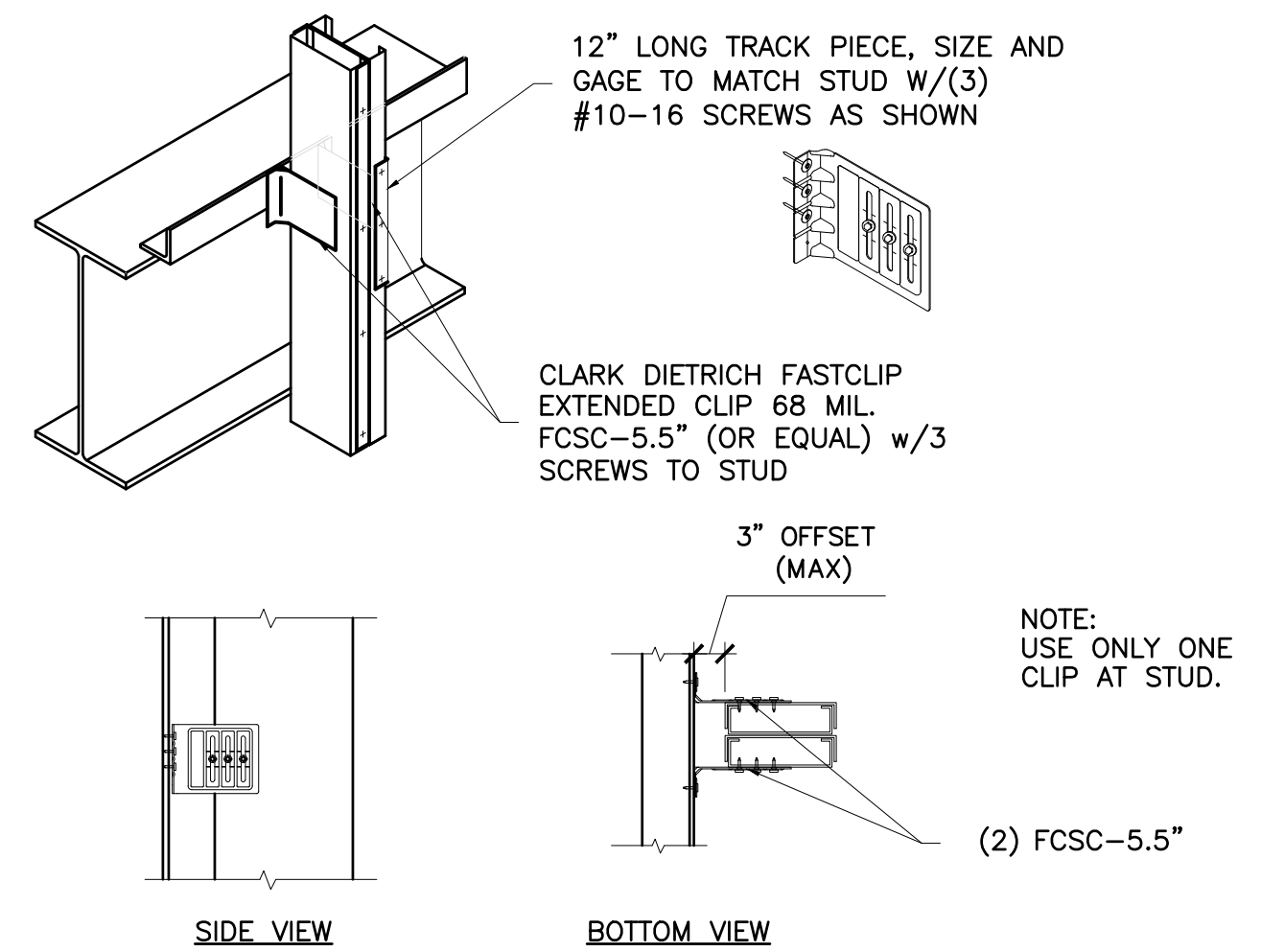
TYPICAL EXTERIOR WALL BRACING
N.T.S.



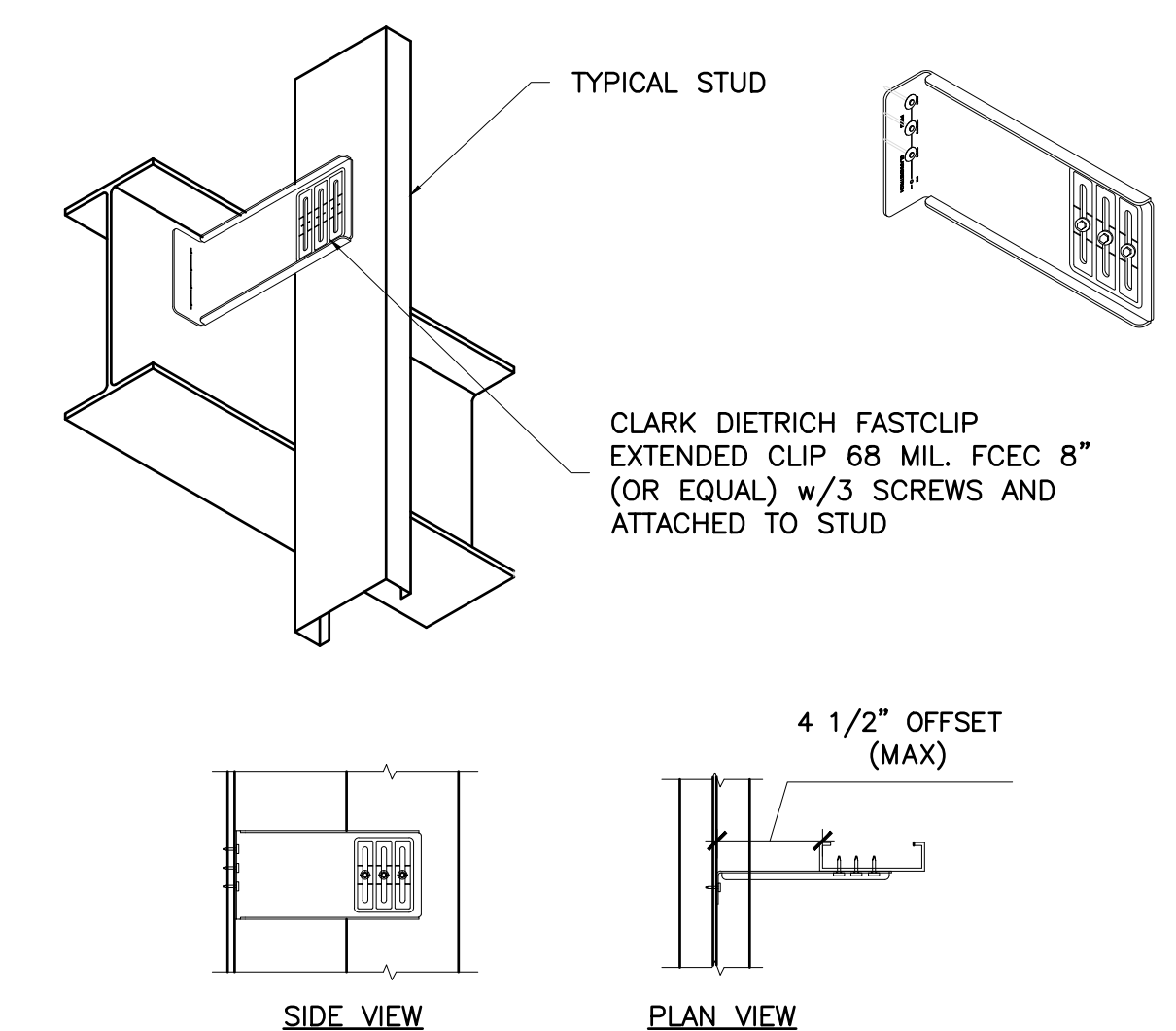
TYPICAL BOTTOM TRACK CONNECTION DETAIL
N.T.S.



TYPICAL BOTTOM TRACK SPLICE DETAIL
N.T.S.



TYPICAL FCSC550 SLIDING CONNECTION DETAIL AT JAMBS
N.T.S.



TYPICAL FCEC800 SLIDING CONNECTION DETAIL
N.T.S.

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER
OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 901
New York, NY 10018
646.646.4110
olaee.com

NO	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: LC
CHECKED BY: MR
SCALE: AS NOTED

DRAWING TITLE
STRUCTURAL DETAILS

SHEET NO. **S-015**

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

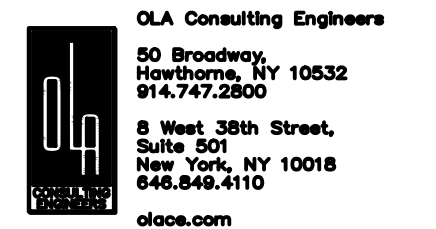
STRUCTURAL ENGINEER

CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE NO. 072797-1

MEP ENGINEER



2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021
NO.	REVISION/ISSUE	DATE

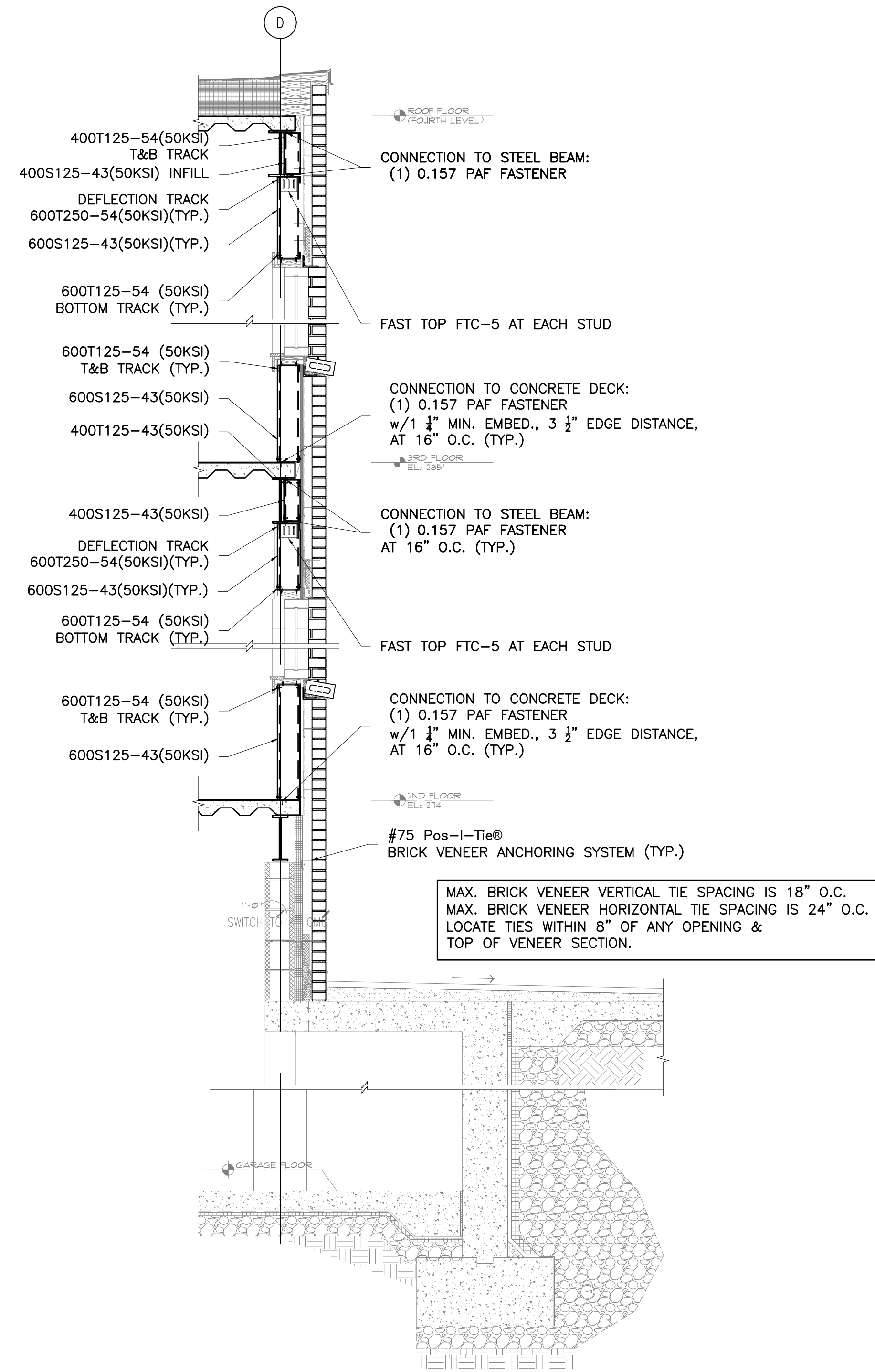


PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

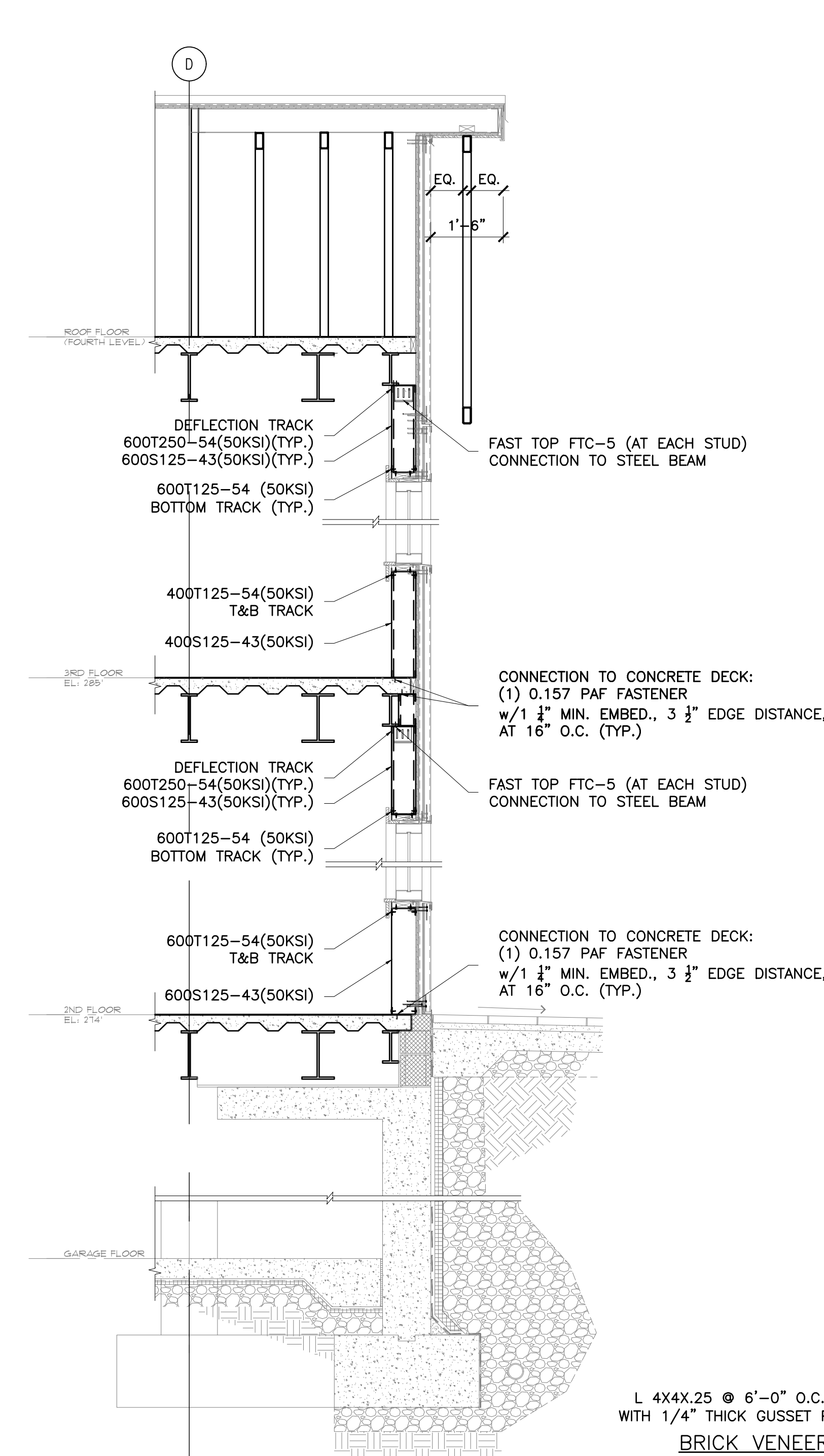
DATE:	APRIL 26, 2021
PROJECT NO.:	1941
DRAWN BY:	LC
CHECKED BY:	MR
SCALE:	AS NOTED

DRAWING TITLE
STRUCTURAL SECTIONS

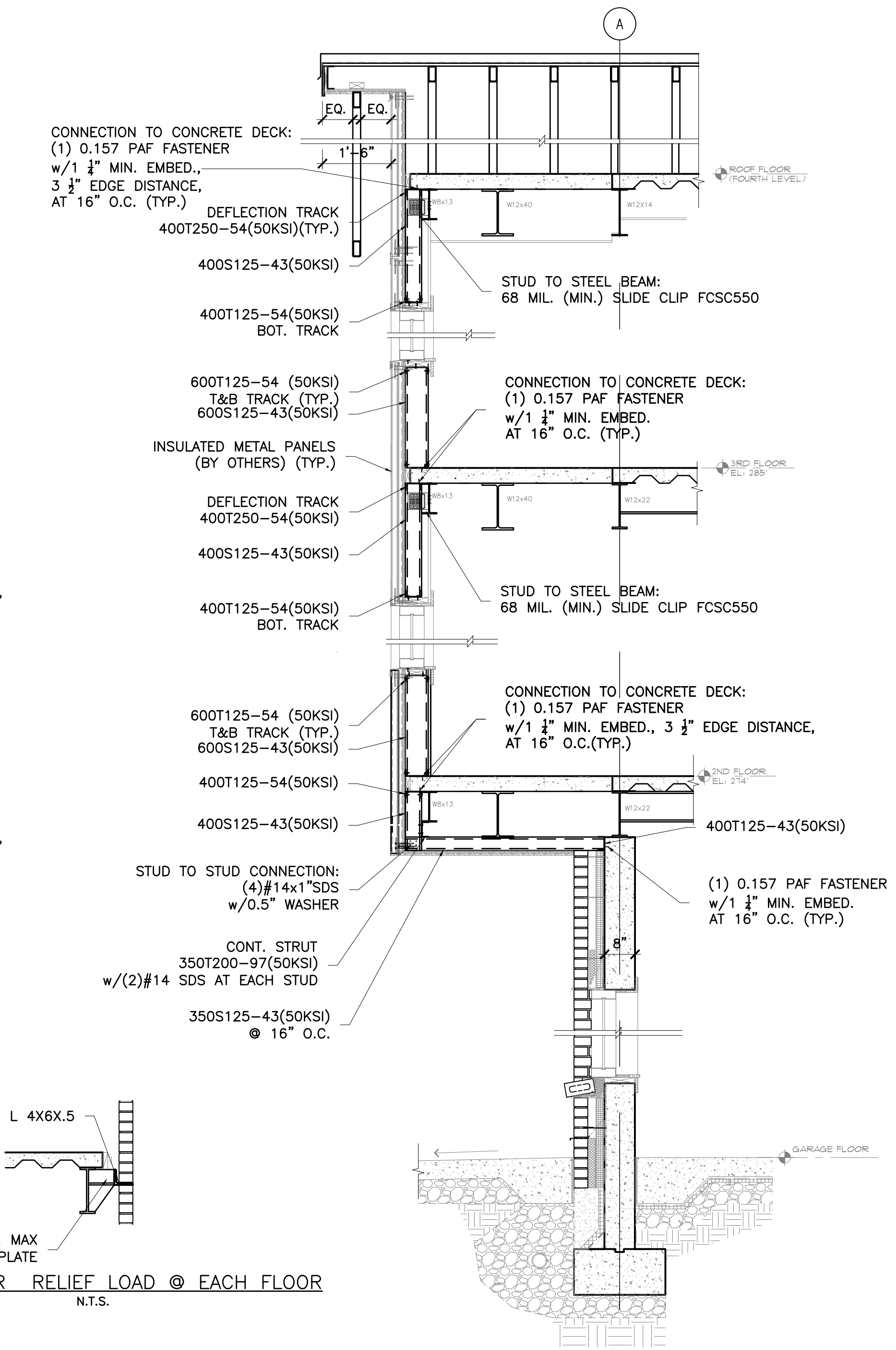
SHEET NO. **S-016**



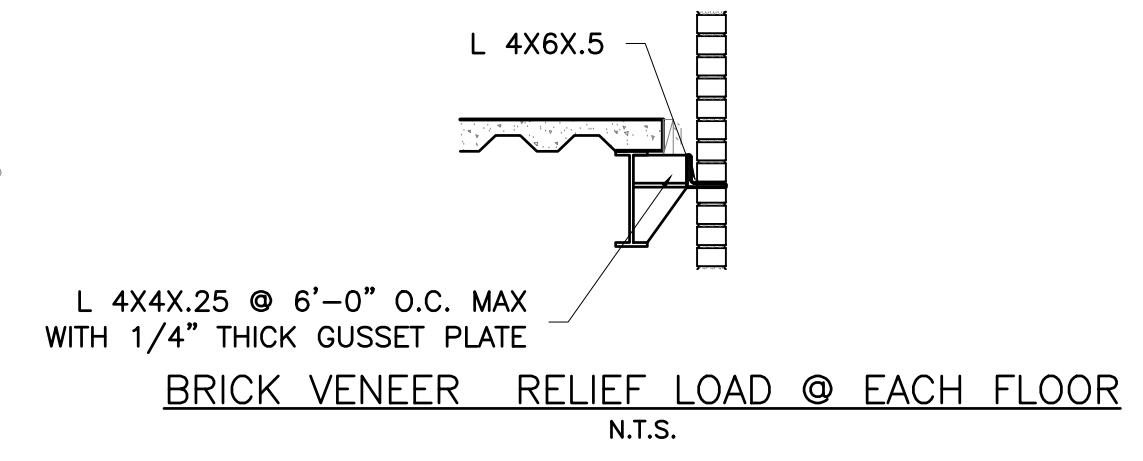
WALL DETAIL 1
AT COLUMN "D" REF: (2/A-300 & 1/A-350)
N.T.S.



WALL DETAIL 2
AT COLUMN "D" REF: (2/A-300 & 2/A-350)
N.T.S.



WALL DETAIL 3
AT COLUMN "A" REF: (3/A-300 & 3/A-350)
N.T.S.



N:\PROJECTS\1900 -1999\1941 Commerce St Dimovski\RFI Changes 4.28.21

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

 59 Kensico Road, Thornwood, NY 10594
 (914) 747-3500 | (914) 747-3588 fax
 www.dimovskiarhitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
 CONSULTING ENGINEERS
 A PROFESSIONAL CORPORATION
 303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488
 SHAILESH R. NAIK, P.E.
 NEW YORK LICENSE No. 072797-1

MEP ENGINEER

 OLA Consulting Engineers
 90 Broadway, 10th Floor, NY 10032
 (914) 747-2800
 8 West 38th Street, Suite 201, New York, NY 10018
 (212) 644-4110
 ola.com

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021
NO.	REVISION/ISSUE	DATE

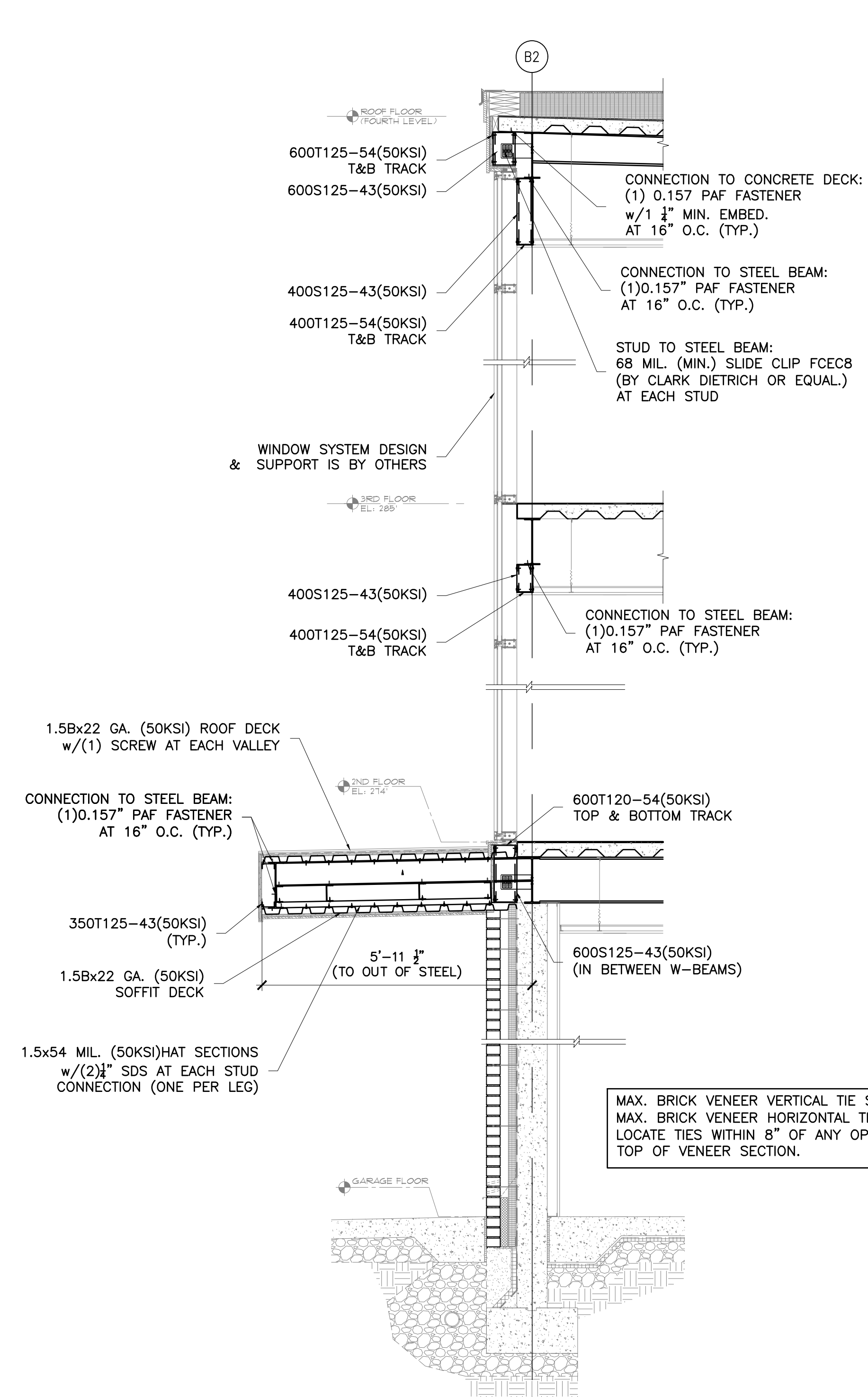
SEAL

PROJECT
LIBERTY PLAZA SUITES
 500 COMMERCE ST.
 TOWN OF MT. PLEASANT, NY

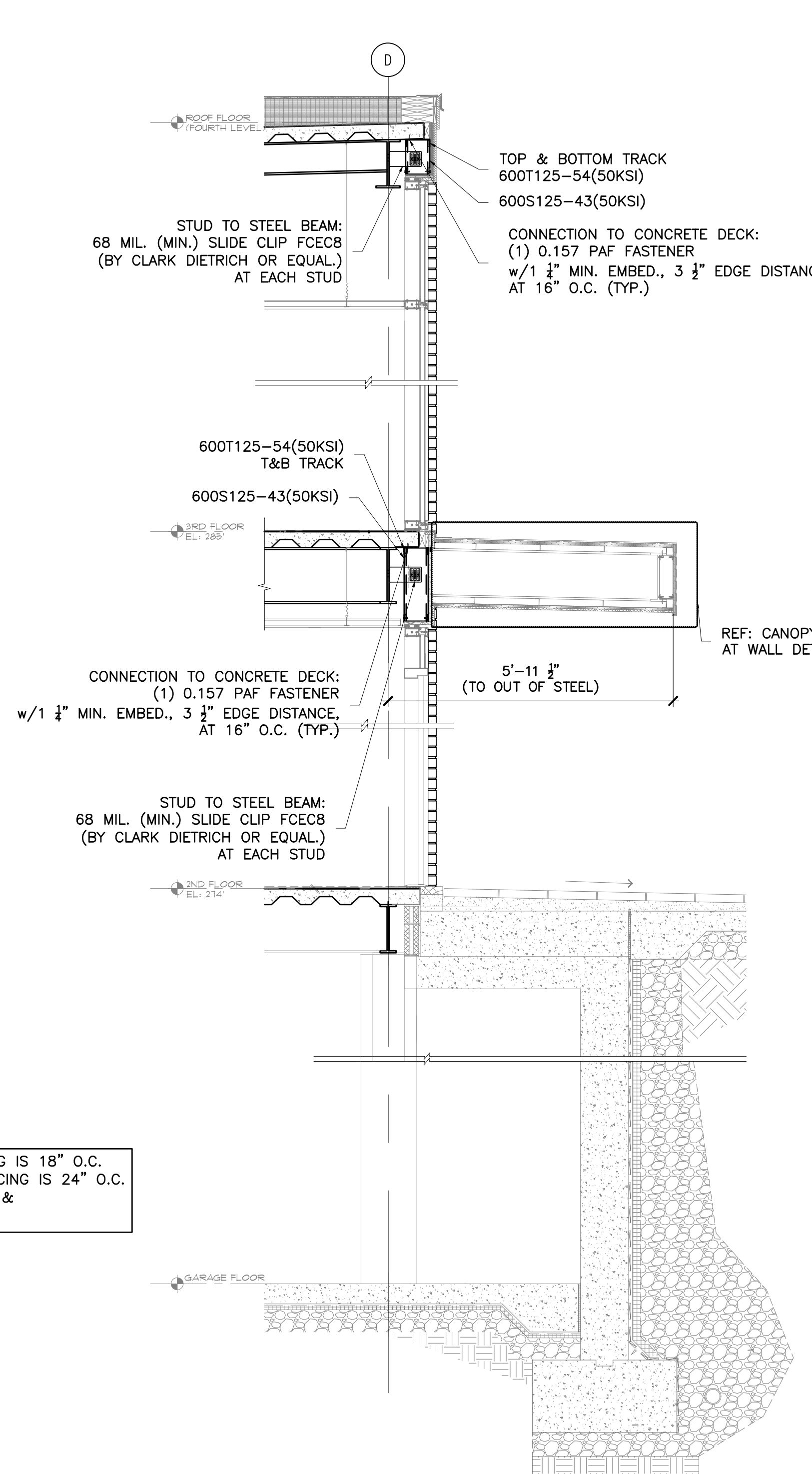
DATE: APRIL 26, 2021
 PROJECT NO: 1941
 DRAWN BY: LC
 CHECKED BY: MR
 SCALE: AS NOTED

DRAWING TITLE
STRUCTURAL SECTIONS

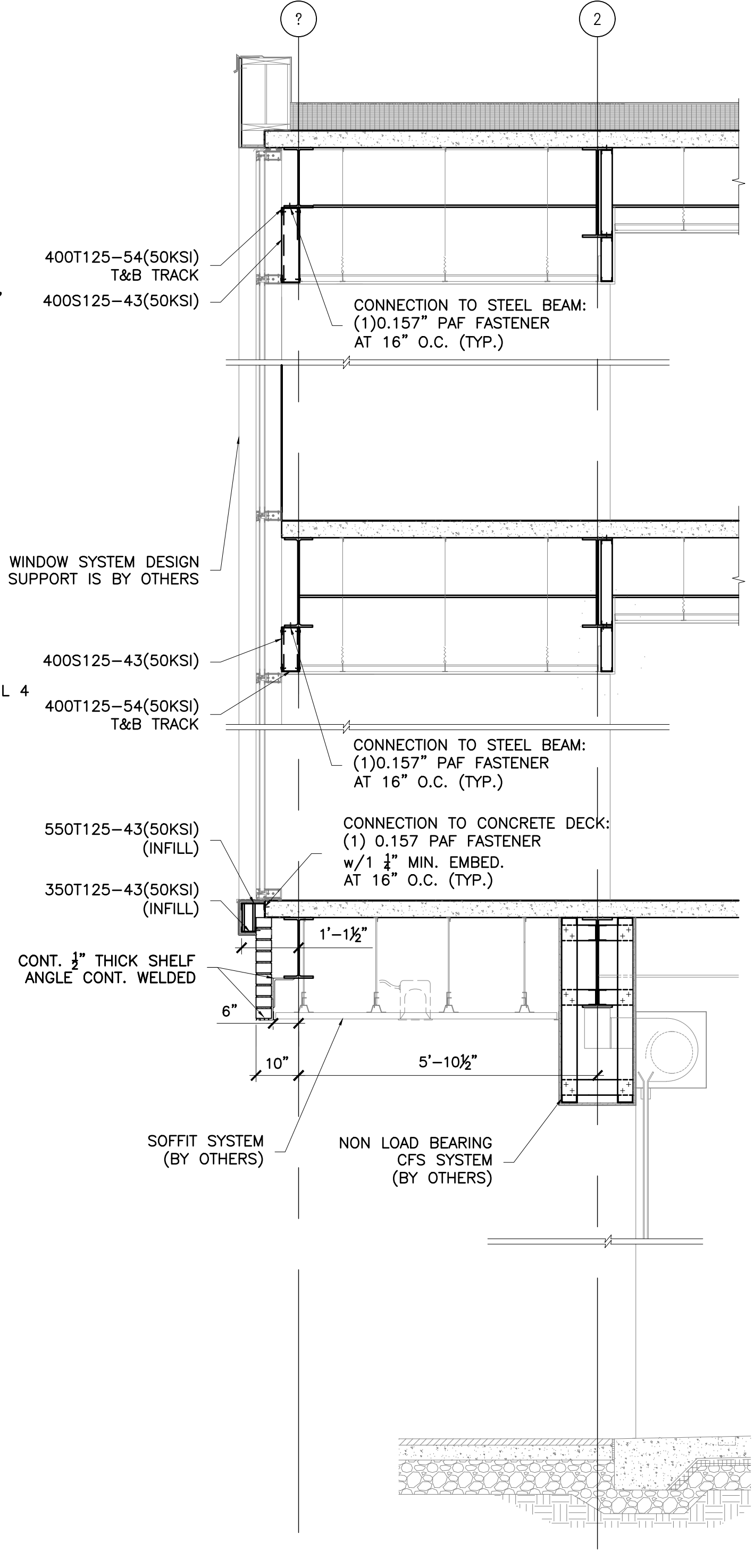
SHEET NO. S-017



WALL DETAIL 4
 N.T.S.
 AT FRONT DOOR ENTRY
 REF: (4/A-300 & 1/A-351)



WALL DETAIL 5
 N.T.S.
 AT GARAGE DOOR COLUMN "2"
 REF: (4/A-300 & 2/A-351)



WALL DETAIL 6
 N.T.S.
 AT GARAGE DOOR COLUMN "2"
 REF: (1/A-300 & 3/A-351)

MAX. BRICK VENEER VERTICAL TIE SPACING IS 18" O.C.
 MAX. BRICK VENEER HORIZONTAL TIE SPACING IS 24" O.C.
 LOCATE TIES WITHIN 8" OF ANY OPENING &
 TOP OF VENEER SECTION.

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT
dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER
CHARLES A. MANGANARO
CONSULTING ENGINEERS
A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

MEP ENGINEER
OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
945.940.4110
olaec.com

NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

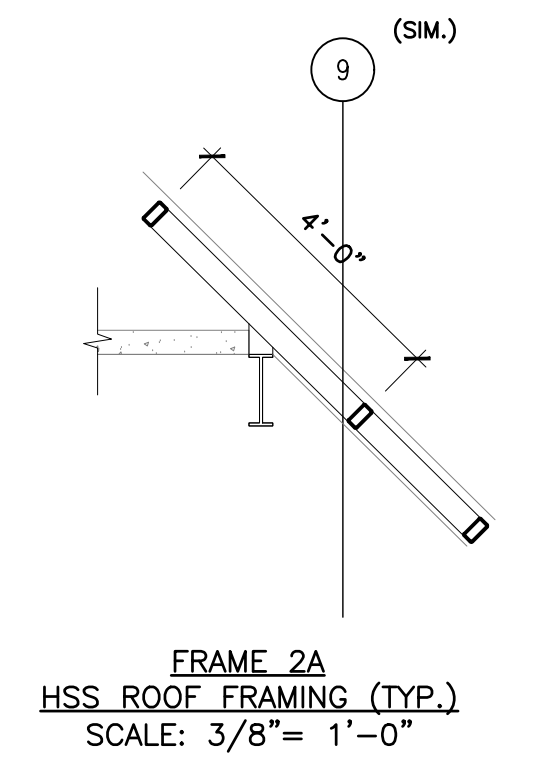
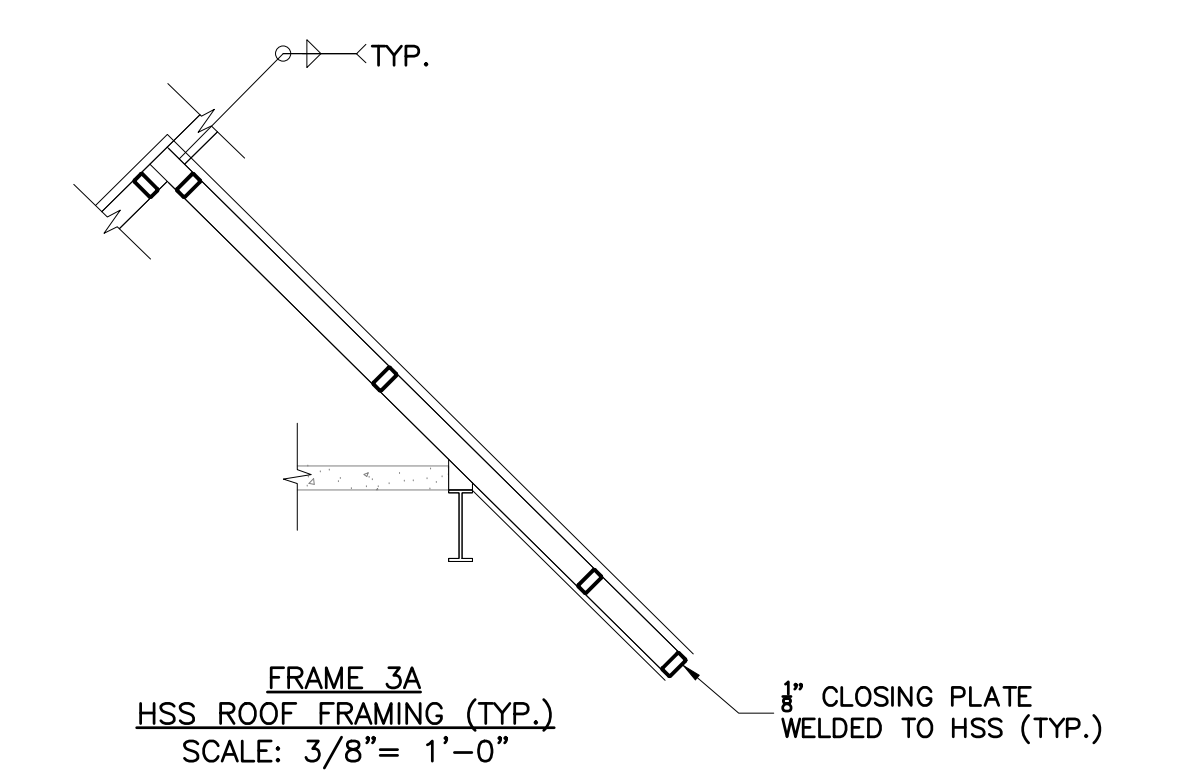
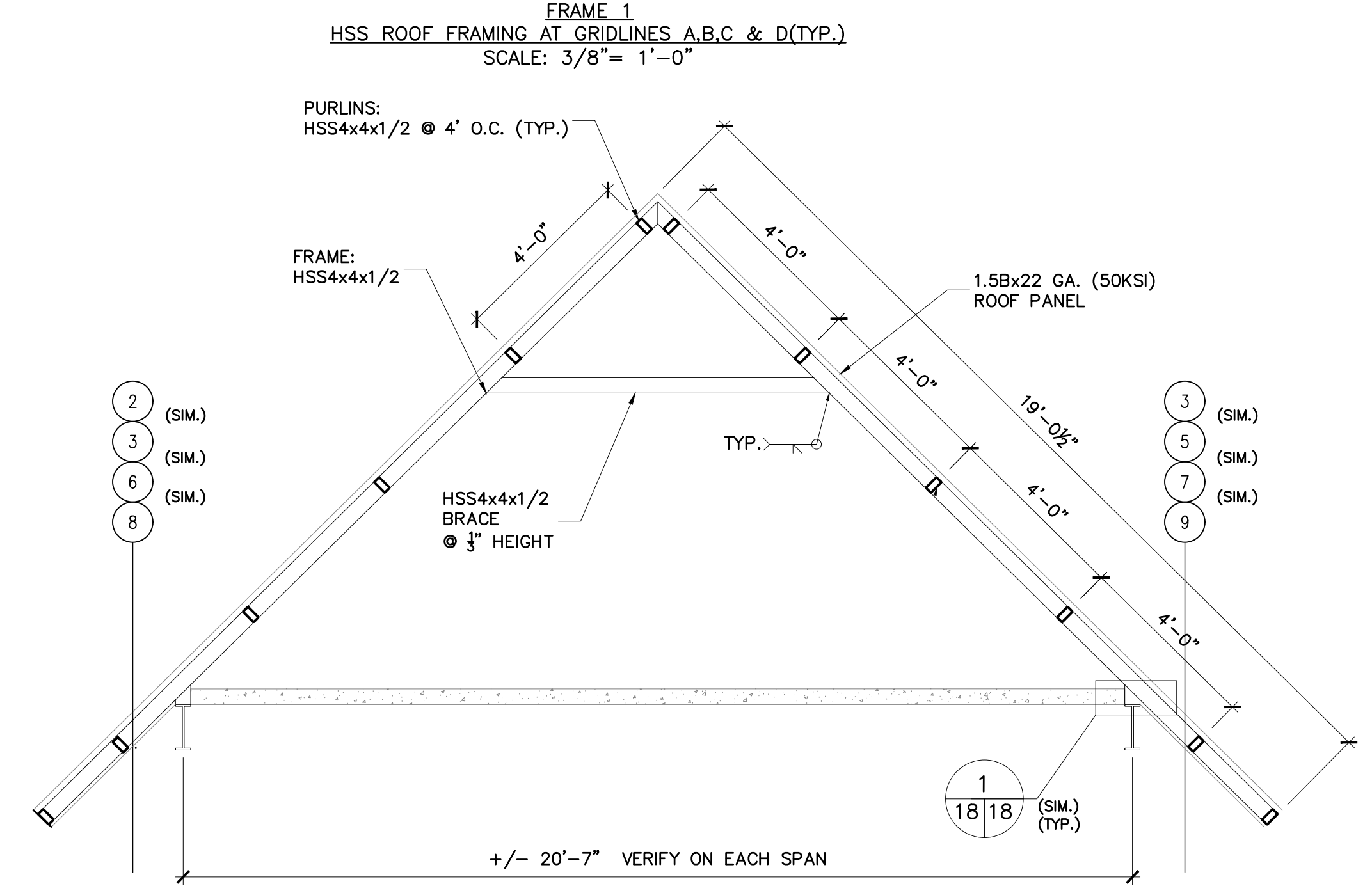
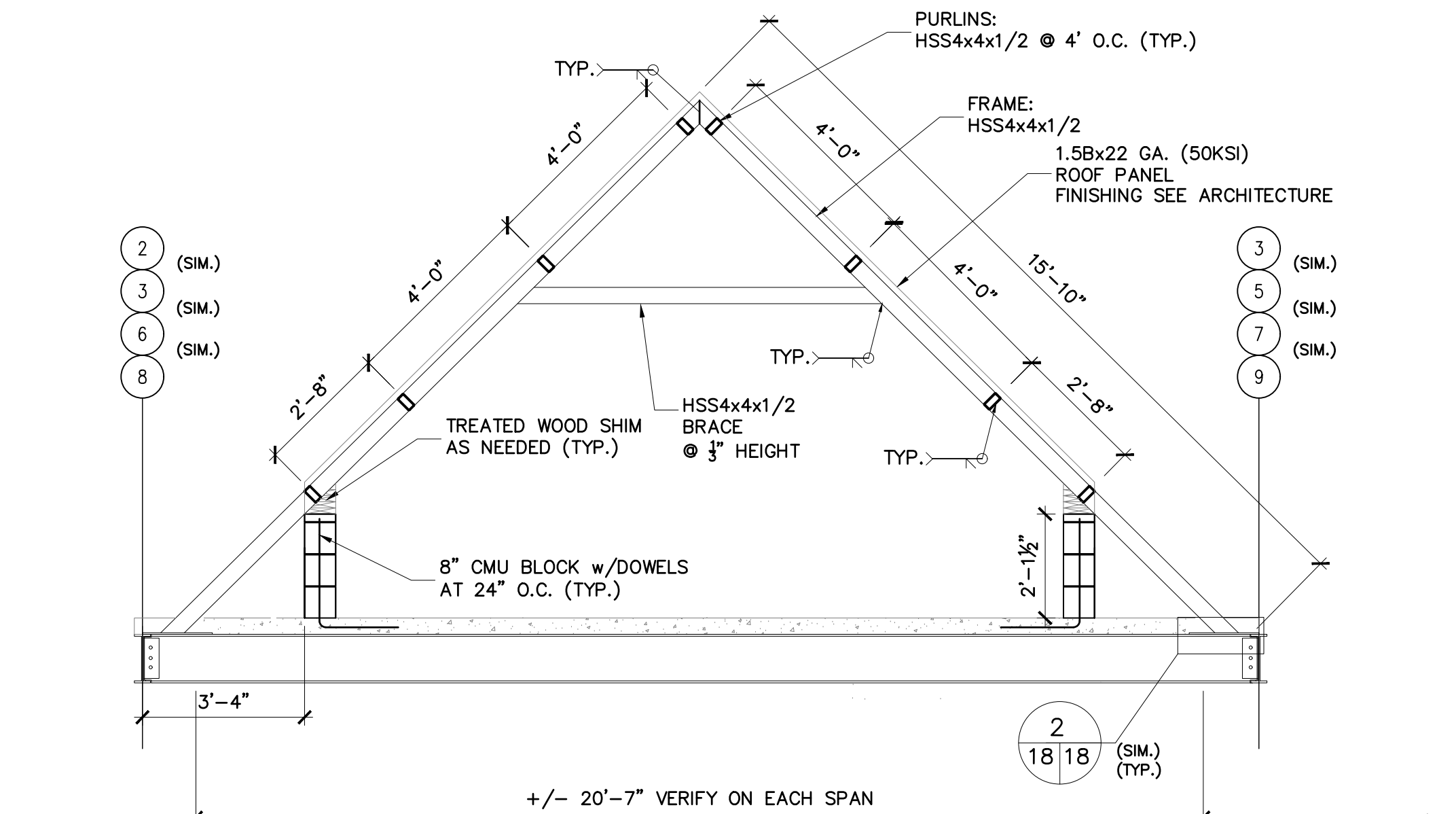
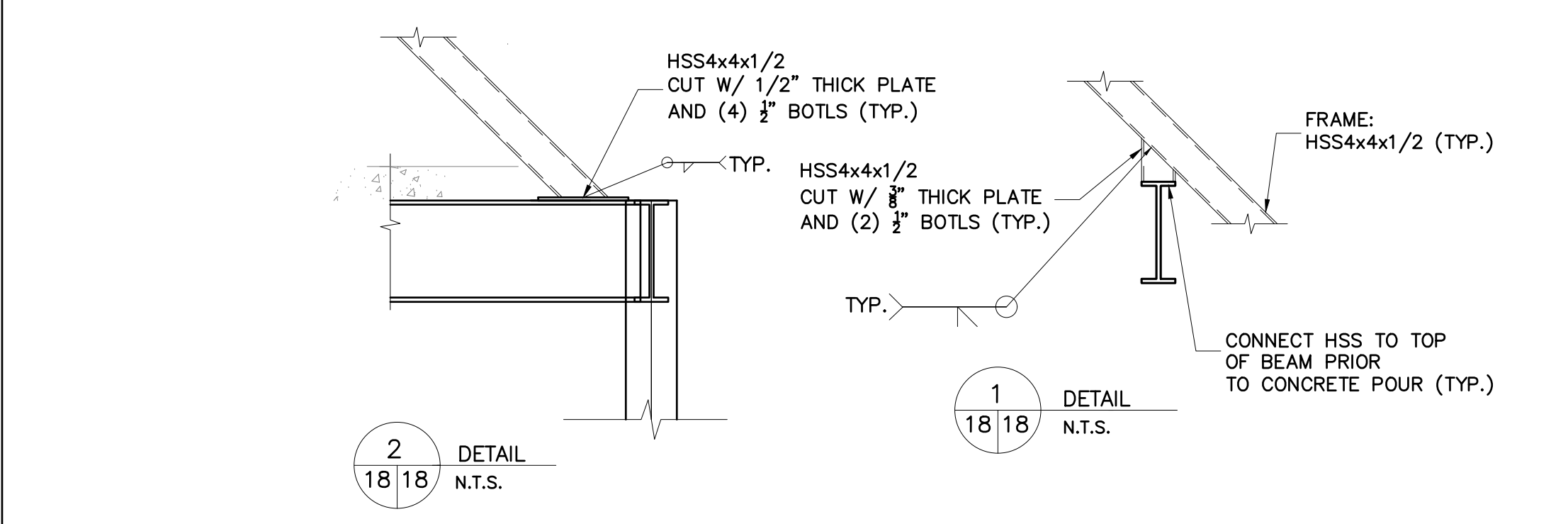
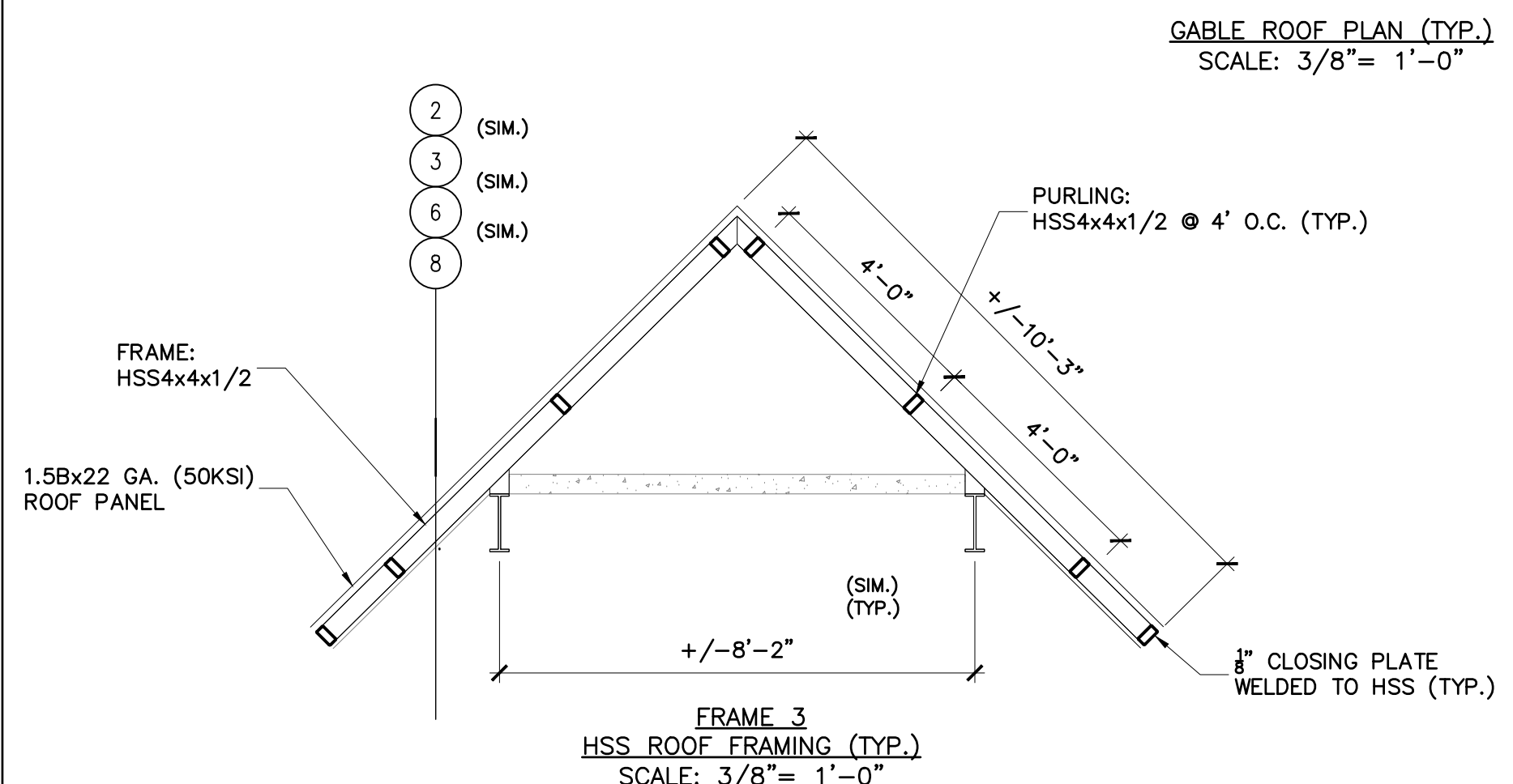
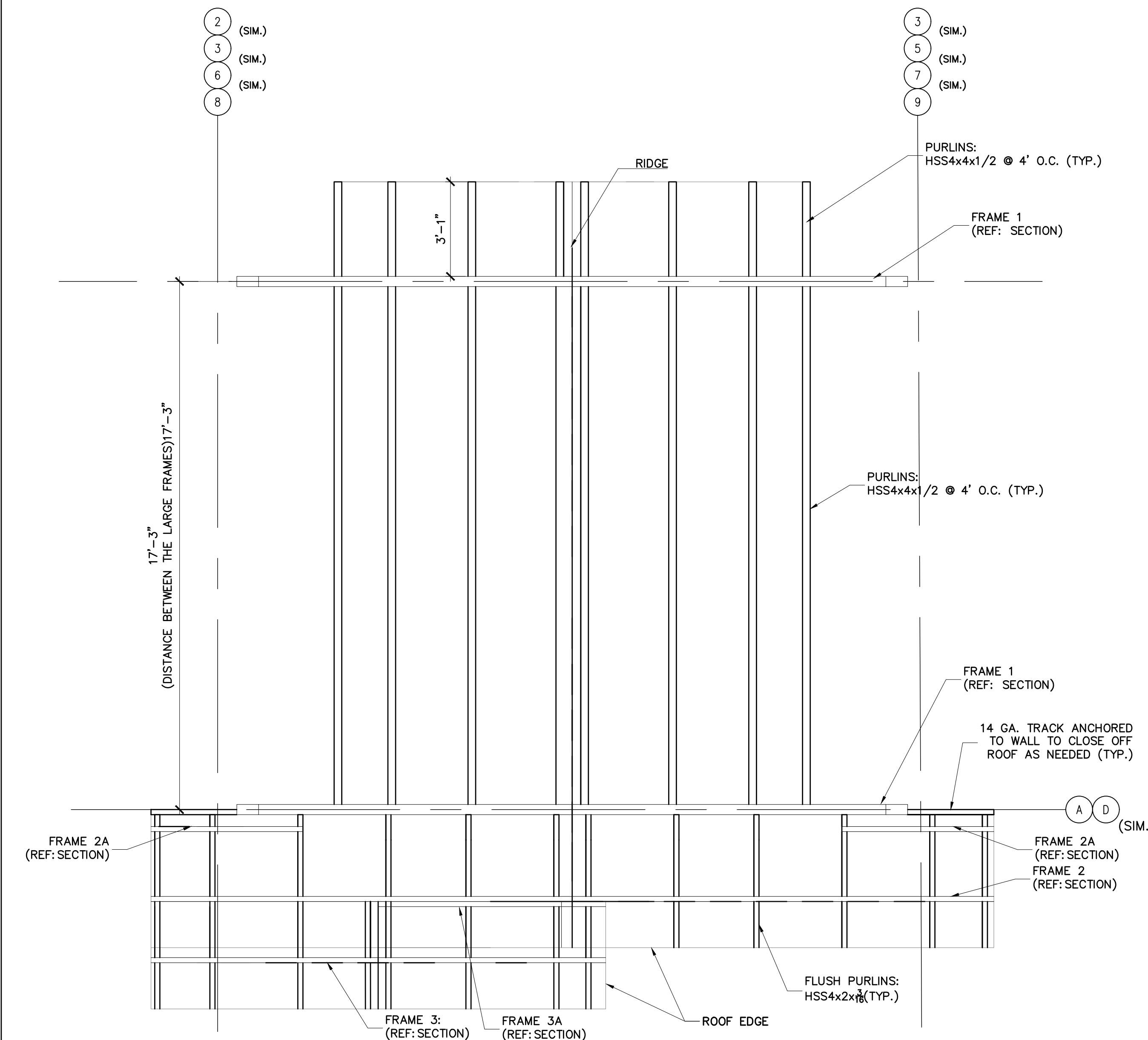
SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: LC
CHECKED BY: MR
SCALE: AS NOTED

DRAWING TITLE
GABLE ROOF FRAMING

SHEET NO. **S-018**



N:\PROJECTS 1900 -1999\1941 Commerce St. Dimovski\RFI Changes 4.28.21

LIBERTY PLAZA SUITES

500 COMMERCE STREET
HAWTHORNE, NY 10532

ARCHITECT

dimovskiarchitecture
59 Kensico Road, Thornwood, NY 10594
(914) 747-3500 | (914) 747-3588 fax
www.dimovskiarchitecture.com

STRUCTURAL ENGINEER

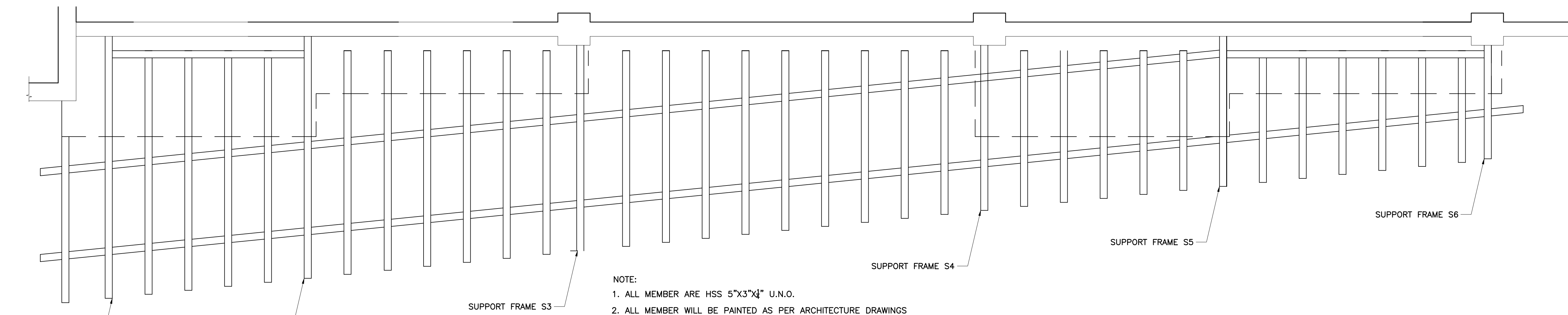
CHARLES A. MANGANARO
CONSULTING ENGINEERS

A PROFESSIONAL CORPORATION
303 SOUTH BROADWAY, SUITE 223, TARRYTOWN, NY 10591-5488

SHAILESH R. NAIK, P.E.
NEW YORK LICENSE No. 072797-1

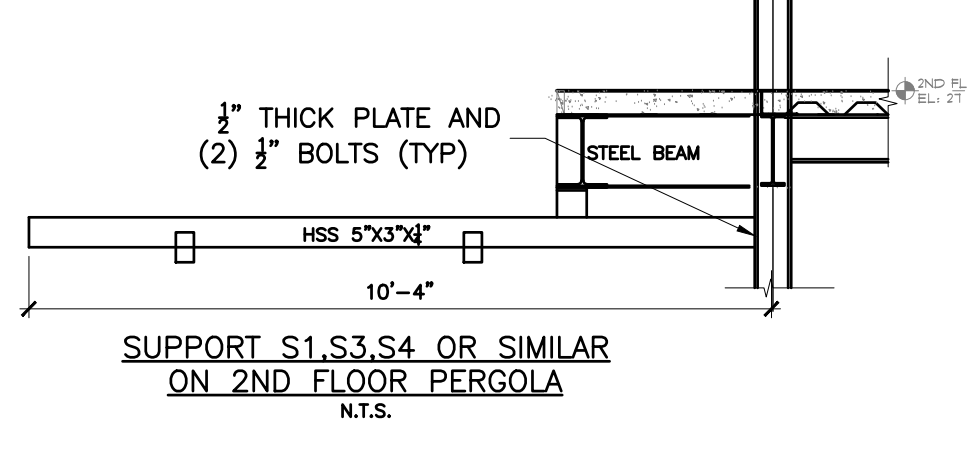
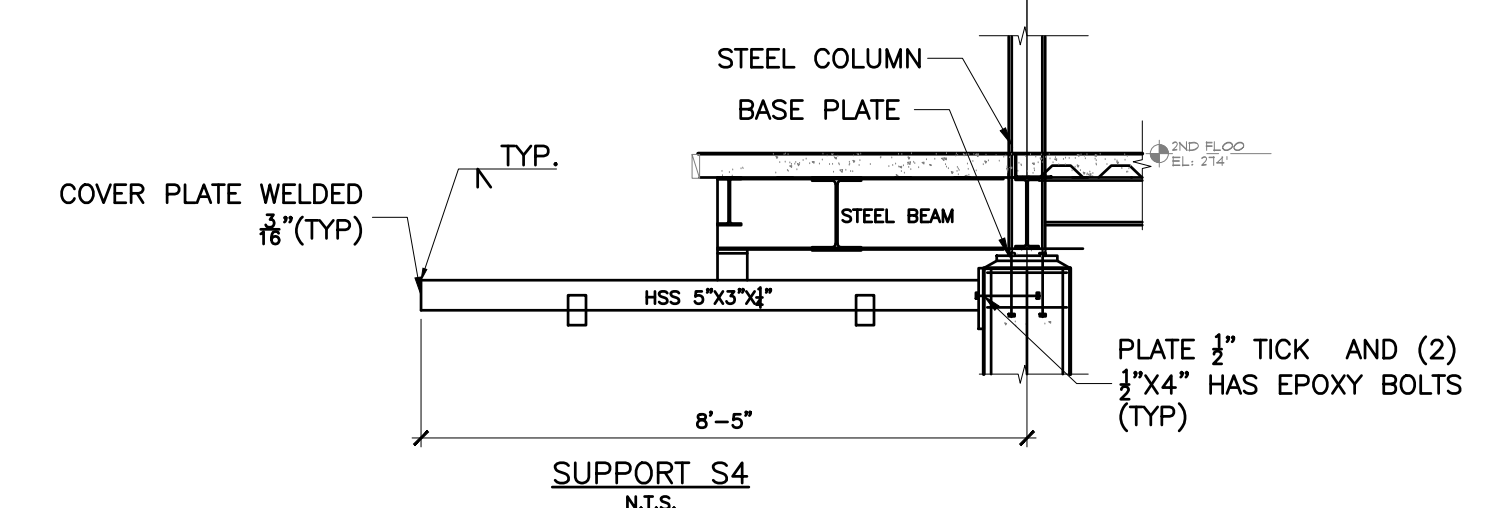
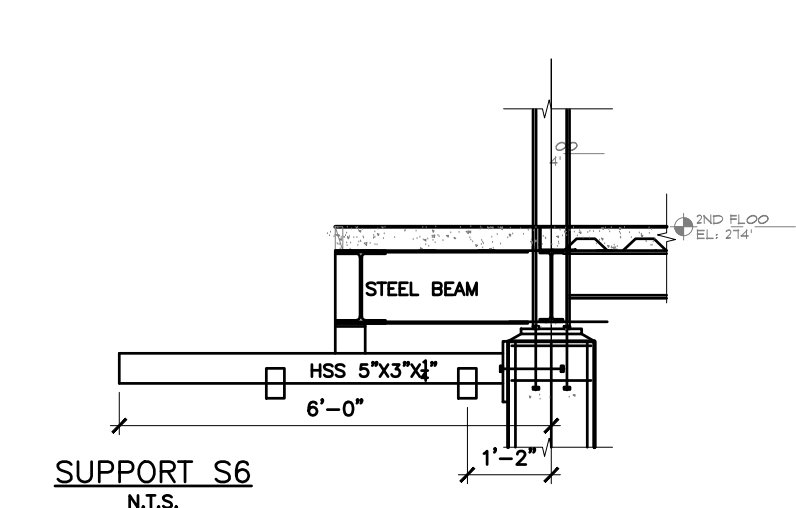
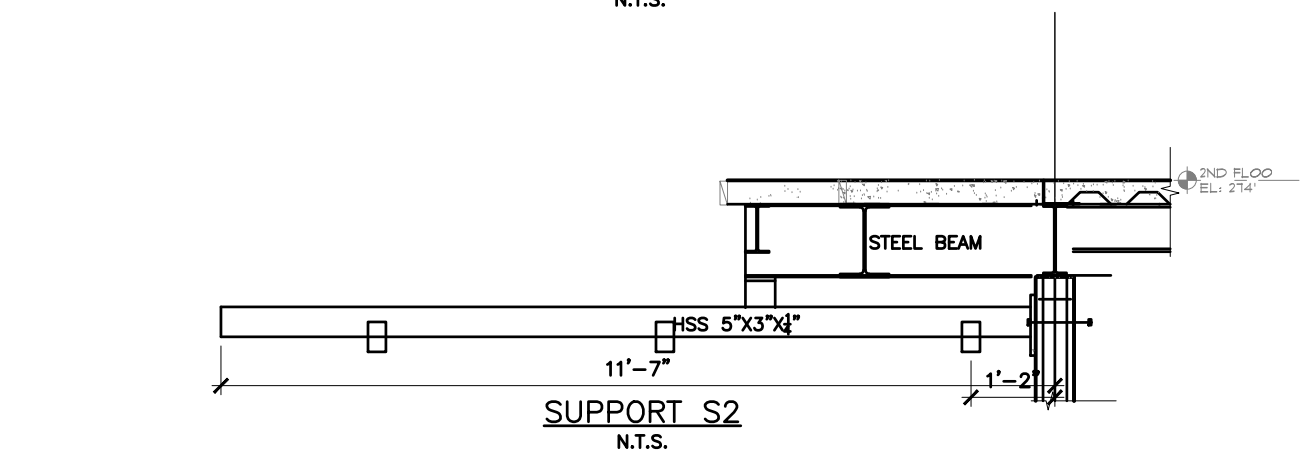
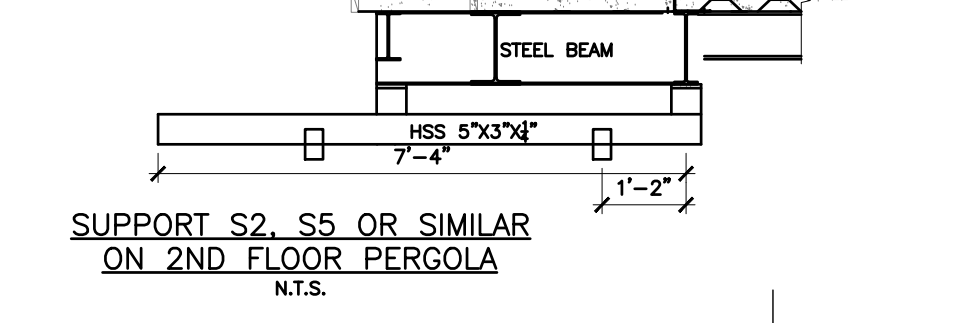
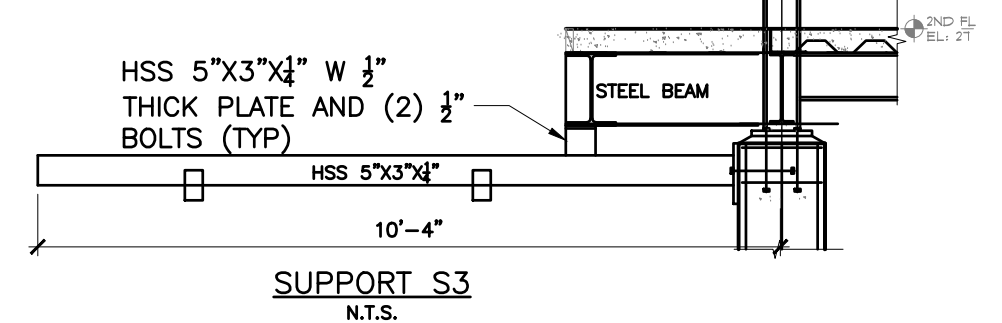
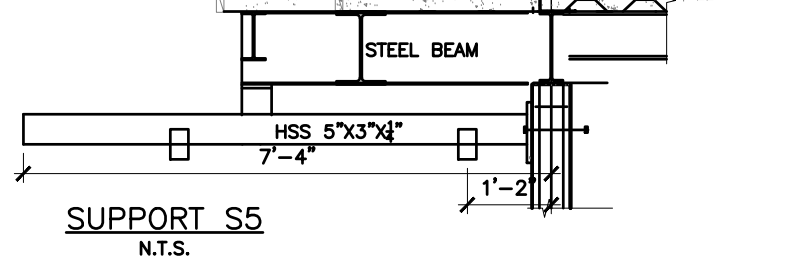
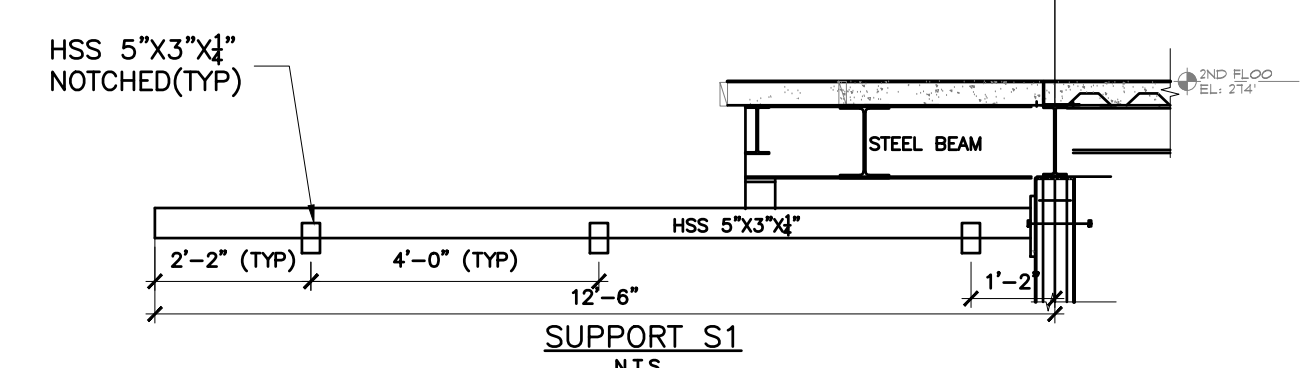
MEP ENGINEER

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800
8 West 38th Street,
Suite 501
New York, NY 10018
946.946.4110
olacoe.com



NOTE:
1. ALL MEMBER ARE HSS 5"x3"x $\frac{1}{4}$ " U.N.O.
2. ALL MEMBER WILL BE PAINTED AS PER ARCHITECTURE DRAWINGS

PERGOLA PLAN (TYP.)
SCALE: 3/8" = 1'-0"



NO.	REVISION/ISSUE	DATE
2	ISSUE FOR DOB COMMENT	04/26/2021
1	ISSUE FOR PERMIT	03/12/2021

SEAL

PROJECT
LIBERTY PLAZA SUITES
500 COMMERCE ST.
TOWN OF MT. PLEASANT, NY

DATE: APRIL 26, 2021
PROJECT NO: 1941
DRAWN BY: LC
CHECKED BY: MR
SCALE: AS NOTED

DRAWING TITLE
PERGOLA DETAIL

SHEET NO. S-019